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# 1987 Census of Construction Industries

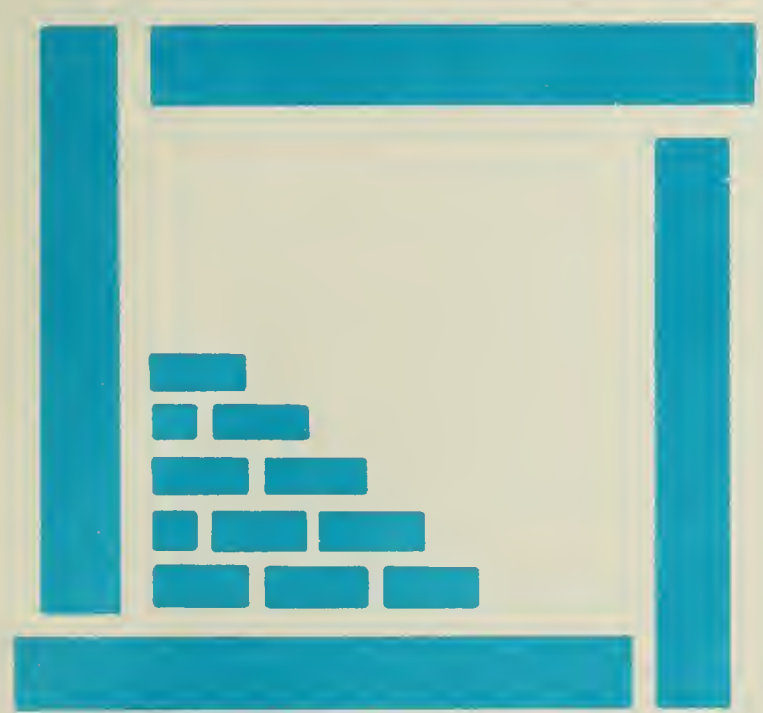
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GEOGRAPHIC AREA SERIES

## United States Summary

Establishments With  
and Without Payroll



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# ACKNOWLEDGMENTS

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Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. **Barry A. Rappaport**, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **A. William Visnansky**, Chief, Census Operations Branch, with primary staff assistance by **Juliana Van Berkum**, **Barbara J. Hadden**, **Edward R. Glover**, **Susan L. Hostetter**, **Shirley M. Baker**, and **Carolyn J. Stone**. Under the direction of **Jesse Pollock**, **Edward K. Ricketts** and **Dennis K. Duke** developed the sampling plans and variance and estimation specifications.

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative record processing, and quality control, along with the associated electronic computer programs, were developed in the Economic Surveys Division, **W. Joel Richardson**, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review

were performed by the staff of the Data Preparation Division, **Joseph S. Harris**, Chief.

Geographic coding procedures and associated computer programs were developed by the staff of the Geography Division, **Robert W. Marx**, Chief.

The computer processing systems were developed and coordinated in the Economic Programming Division, **Barry M. Cohen**, Chief, and **H. Ray Dennis**, Assistant Chief. **Sarah W. Baumgardner**, Chief, Construction Census Branch, was responsible for the design and implementation of the computer systems. The computer programs were prepared under the supervision of **Barbara L. Lambert**, assisted by **Herbert Isham** of the Construction Statistics Division. **Linda M. Mersh** and **James Dallmann** assisted in establishing and maintaining the production control system.

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Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call (301) 763-7546.

# **1987**

# **Census of Construction Industries**

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CC87-A-10

GEOGRAPHIC AREA SERIES

## **United States Summary**

Establishments With  
and Without Payroll

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Issued October 1990



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**Thomas J. Murrin**, Deputy Secretary  
**Michael R. Darby**, Under Secretary  
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**BUREAU OF THE CENSUS**  
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## PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

*Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.*

*Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.*

*State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.*

*Trade associations study trends in their own and competing industries, and keep their members informed of market changes.*

*Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.*

## AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the—

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

## AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

## WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan



areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

## **HISTORICAL INFORMATION**

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

## **AVAILABILITY OF MORE FREQUENT ECONOMIC DATA**

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Construction Reports* (building permits, housing starts, and value of new construction put in place), *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

## **SOURCES FOR MORE INFORMATION**

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

## **CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION**

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property



into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.<sup>1</sup> This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

**Contract construction**—The SIC manual defines construction in three broad types of activity that follow:

1. **Building construction by general contractors or by operative builders**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
2. **Heavy construction general contractors**—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
3. **Construction by other special trade contractors**—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C.; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

## ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

<sup>1</sup>Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.



If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

## **SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES**

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

### **Employer Companies**

**Developing the sampling frame for employer companies**—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

**Selecting the employer sample**—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan



area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

**Estimation procedures for 1987 and 1982 data—**Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_c = \frac{\sum_{i=1}^{n_c} x_i}{n_c}$$

where:  $x'_c$  is the simple unbiased estimate of a characteristic for a publication cell.

$x_i$  is the reported value of a characteristic for an individual establishment in the publication cell.

$p_i$  is the selection probability of that firm.

$n_c$  is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

**Reliability of employer statistics—**Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

## Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts", referred to in the tables as "dollar value of business done", was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.



## **CENSUS REPORT FORMS**

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

## **DATA PROCESSING**

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

## **GEOGRAPHIC CLASSIFICATION**

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

## **DUPLICATION IN VALUE OF CONSTRUCTION WORK**

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

## **SPECIAL TABULATIONS**

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.



To discuss a special tabulation before submitting specifications, call 301-763-7546.

**COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA**

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

**ABBREVIATIONS AND SYMBOLS**

The following abbreviations and symbols are used in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- Represents zero.
- † Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
- †† Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

# Users' Guide for Locating Statistics in This Report by Table Number

Statistics	For U.S.	By State	By employment size	By size class of the dollar value of business done	By type, class, ownership, kind of business, and location of construc- tion <sup>1</sup>	By CMSA, PMSA, and MSA <sup>2</sup>
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment .....	7, 8	7, 8				
End of year—total .....	4, 7, 8	7, 8	10	11		
End of year—buildings, machinery and equipment .....	7, 8	7, 8				
Depreciation charges during year—buildings, machinery and equipment .....	7, 8	7, 8				
Capital expenditures:						
Total capital expenditures .....	4, 7, 8	7, 8	10	11		
New buildings—machinery and equipment .....	7, 8	7, 8				16
Used buildings—machinery and equipment .....	7, 8	7, 8				
Communication services, payments for .....	5, 6	5, 6				
Employees:						
All employees—average number .....	1, 2, 4, 5, 6	5, 6	10	3, 11		16
Construction workers—average number .....	4, 5, 6, 13	5, 6				
Other employees—average number .....	5, 6	5, 6				
Employer costs for fringe benefits—legally required and voluntary expenditures .....	5, 6	5, 6				
Establishments:						
Number in business at end of year .....	17					
Number in business during year:						
All .....	1, 2			3		
With payroll .....	1, 2, 3, 4, 5, 6, 9, 13	5, 6, 9	10	3, 11		16
Without payroll .....	1, 2			3		
Hours—construction workers:						
Total .....	4, 5, 13	5	10	11		
Quarterly .....	5, 13	5				
Inventories .....	9	9				
Materials, components, supplies, and fuels—payments for .....	4, 5, 6	5, 6	10	11		16
Payroll:						
First quarter, all employees .....	5, 6	5, 6				
Annual:						
All employees .....	4, 5, 6	5, 6	10	11		16
Construction workers .....	4, 5, 6	5, 6				
Other employees .....	5, 6	5, 6				
Power, fuels, and lubricants—payments for .....	5, 6	5, 6				
Proprietors and working partners:						
All establishments .....	1, 2			3		
Establishment with payroll .....	1, 2, 5, 6	5, 6		3		
Establishments without payroll .....	1, 2			3		
Ratios, State .....	15					
Receipts:						
Dollar value of business done:						
All establishments .....	1, 2			3		
Establishment with payroll .....	1, 2, 5, 6	5, 6	10	3, 11		
Establishments without payroll .....	1, 2			3		
Value of construction work, total .....	4, 5, 6, 9	5, 6, 9	10	11	5, 6, 12, 14	16
For work subcontracted in from others .....	5, 6	5, 6				
Other business receipts .....	5, 6	5, 6				
Land receipts <sup>3</sup> .....	5, 6	5, 6				
Net value of construction work .....	4, 5, 6	5, 6	10	11		16
Value added .....	4, 5, 6	5, 6	10	11		16
Rental payments:						
Total .....	4, 5, 6	5, 6	10	11		
For machinery and equipment .....	5, 6	5, 6				
For buildings .....	5, 6	5, 6				
Repairs to buildings and other structures .....	5, 6	5, 6				
Repairs to machinery and equipment .....	5, 6	5, 6				
Subcontract work to others, payments for .....	4, 5, 6	5, 6	10	11		16

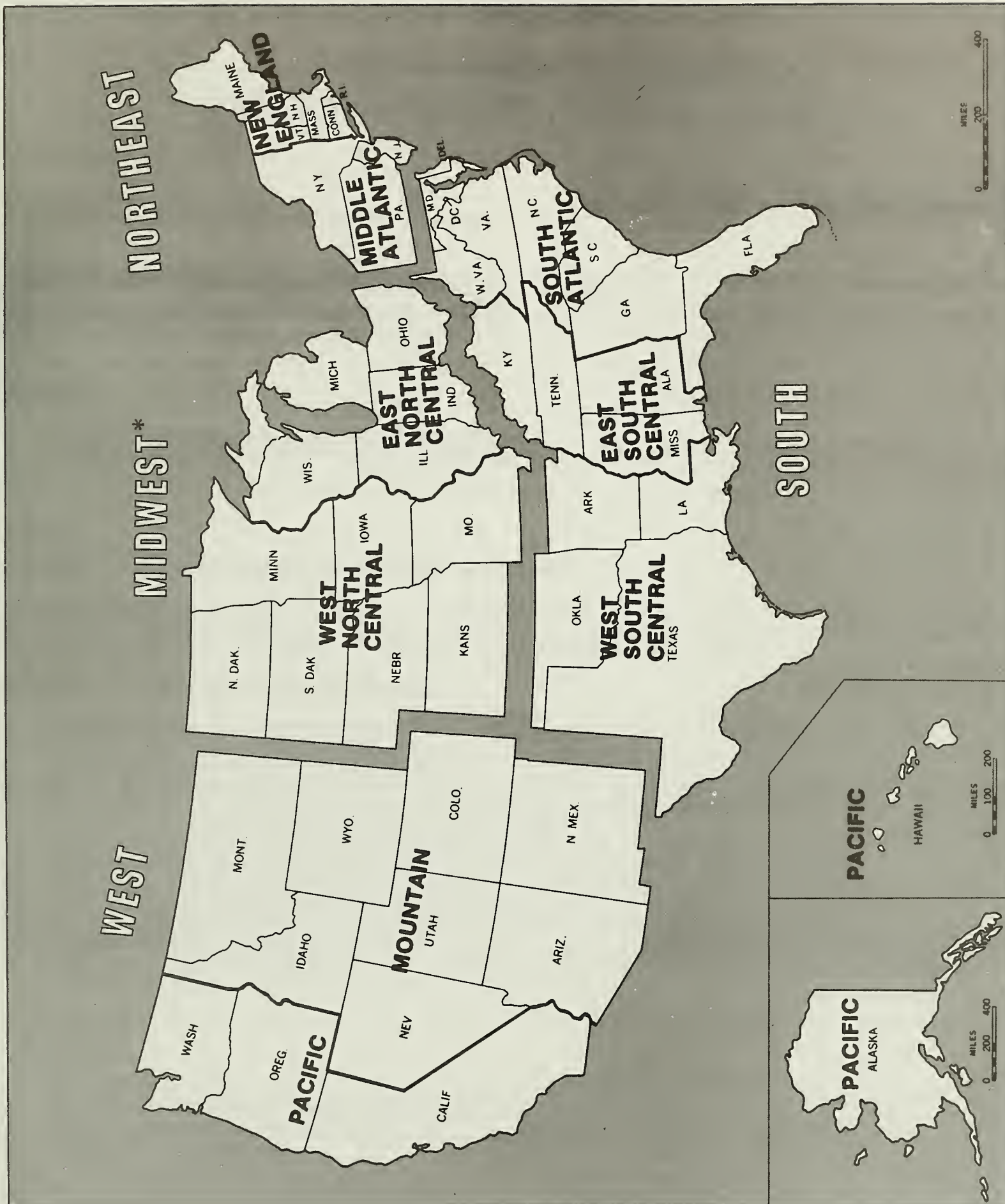
Note: Data for 1982 and earlier years are also available in some of these tables.

<sup>1</sup>Type—buildings, roads, etc. Class—new construction; or maintenance and repair work. Ownership—private or government owned.

<sup>2</sup>CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan Statistical area.

<sup>3</sup>Other business receipts and land receipts are shown separately for SIC's 1531 and 6552.





\* The Midwest Region was designated as the North Central Region until June 1984.

U.S. DEPARTMENT OF COMMERCE  
Bureau of the Census





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## United States Summary Establishments With and Without Payroll

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# SUMMARY OF FINDINGS

This report summarizes data previously published from the geographic division final reports covering construction establishments with payroll and limited data on construction establishments with no payroll during 1987, which were obtained from administrative records of the Federal Government. (Establishments with no payroll are, for the most part, companies owned and operated by a single person.) Each division report contains separate sections for the States within that division. Data for standard consolidated statistical areas and selected metropolitan statistical areas are also shown in this report.

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers, and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were nearly 2.0 million establishments in the United States operating in the construction industries or as land subdividers and developers. These establishments accounted for \$605 billion in total value of business done.

Most of the 2.0 million construction establishments were small. Of the total, 1.4 million were nonemployers, and over half of the employer establishments had less than 5 employees. However, the 229,715 establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 76 percent of the total value of business done.

## ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$522 billion in total dollar value of business done. Of this amount, \$500 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$132 billion, leaving net value of construction work of \$368 billion. In addition, these establishments paid out \$23.1 billion for the cost of

fuels, power, rental of equipment and buildings, and the cost of selected purchased services. Value added for 1987 was \$230 billion. (See Introduction and appendixes for explanation of terms.)

Establishments located in California had \$71.2 billion for value of construction work, 14 percent of the value of construction work of all establishments with payroll in the United States. The next largest State was New York with \$33.6 billion, which was 7 percent followed by Texas with \$30.7 billion, at 6 percent.

There were 544,233 establishments with total employment averaging 5,054,367 during the year. Total payroll for 1987 was \$111 billion. Total hours worked by construction workers during the year were 6.7 billion hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.



## ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 1.4 million establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$82.6 billion. Most of these establishments, about 75 percent, were special trade contractors.

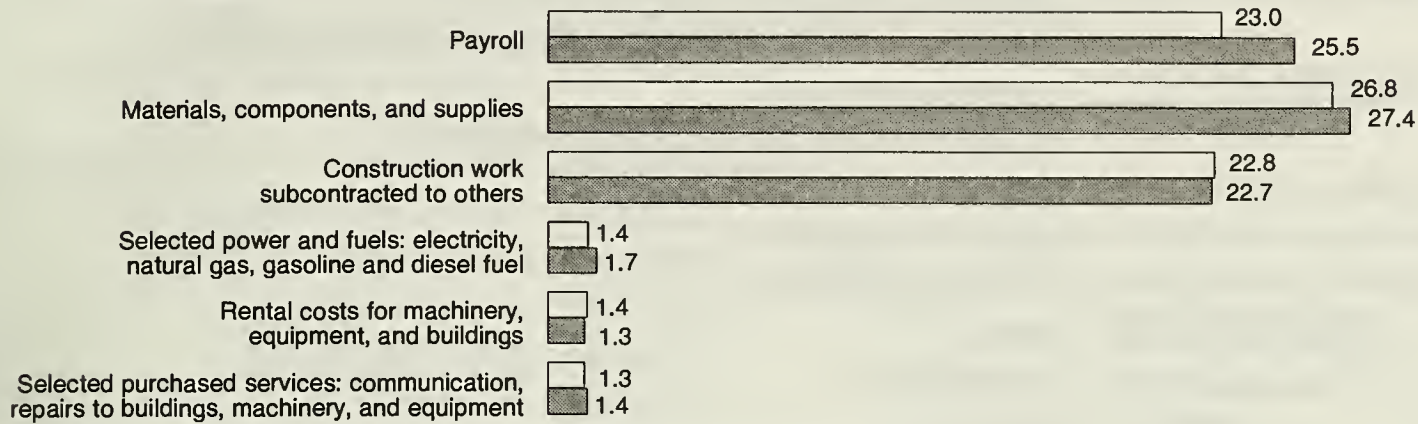
For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.



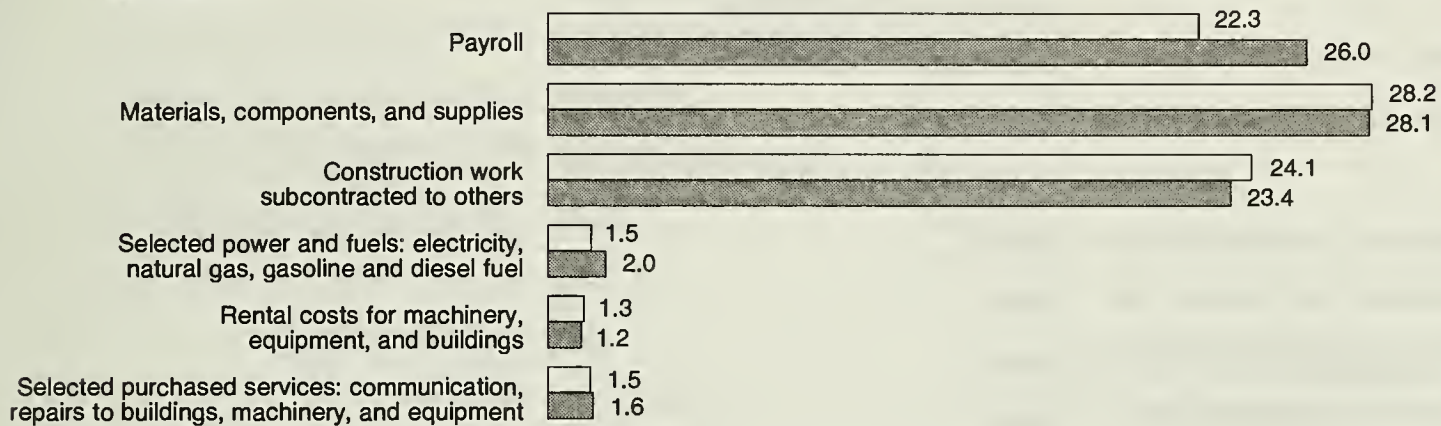
Figure 1. **Selected Costs Per Dollar Value of Business Done**  
(Percent)

1987   
1982 

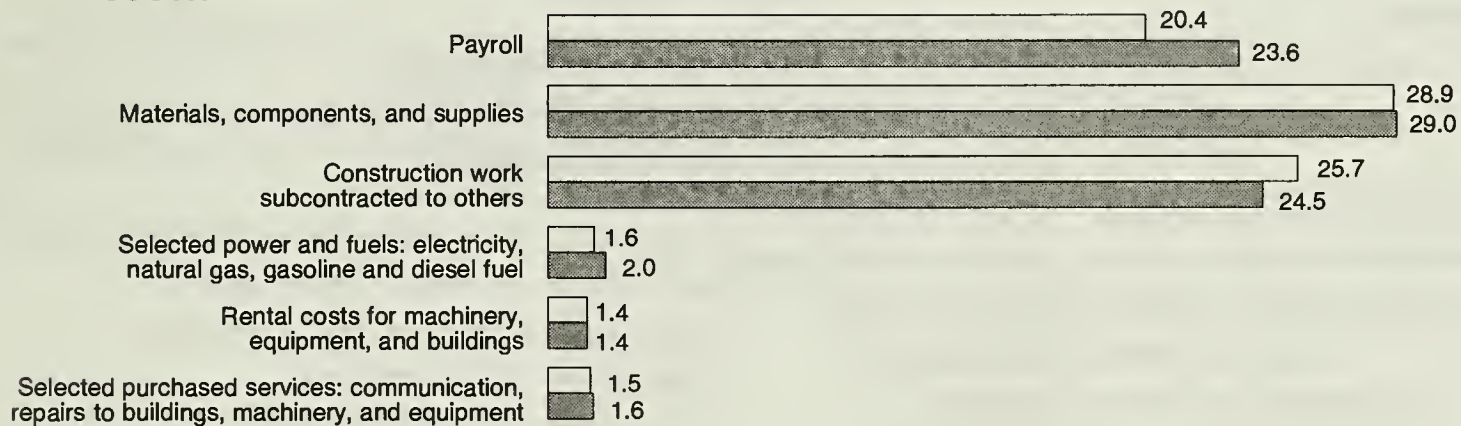
### NORTHEAST



### MIDWEST



### SOUTH



### WEST

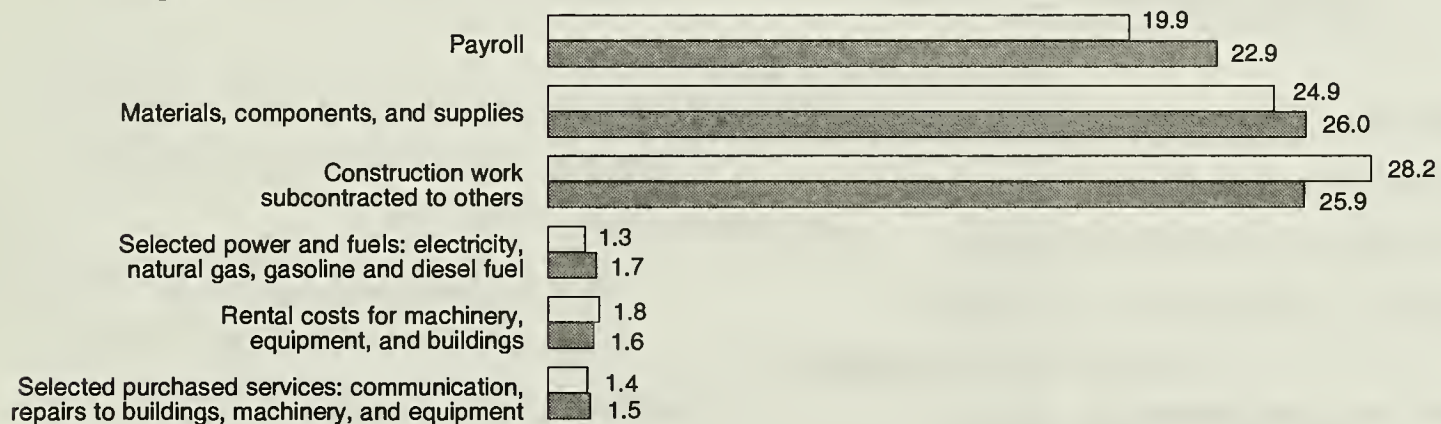
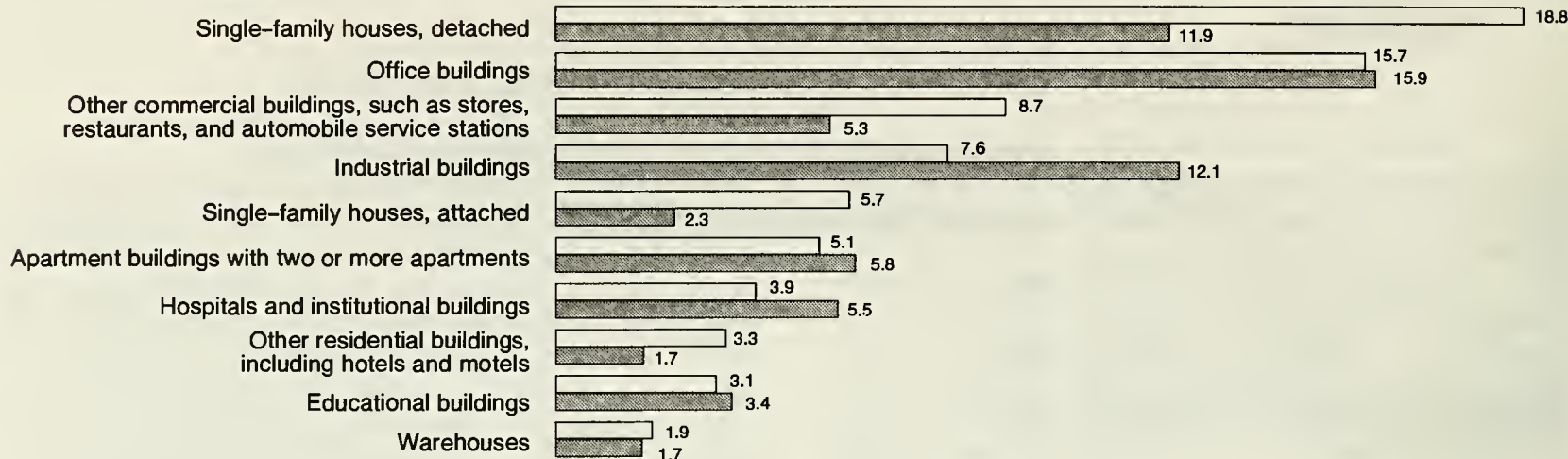


Figure 2. Value of Construction Work by Type of Construction  
(Percent)

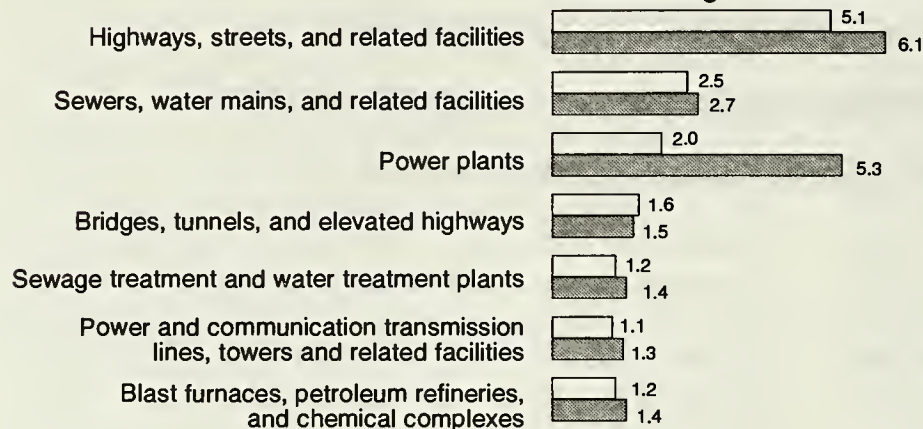
1987   
1982 

### NORTHEAST

#### Building Construction

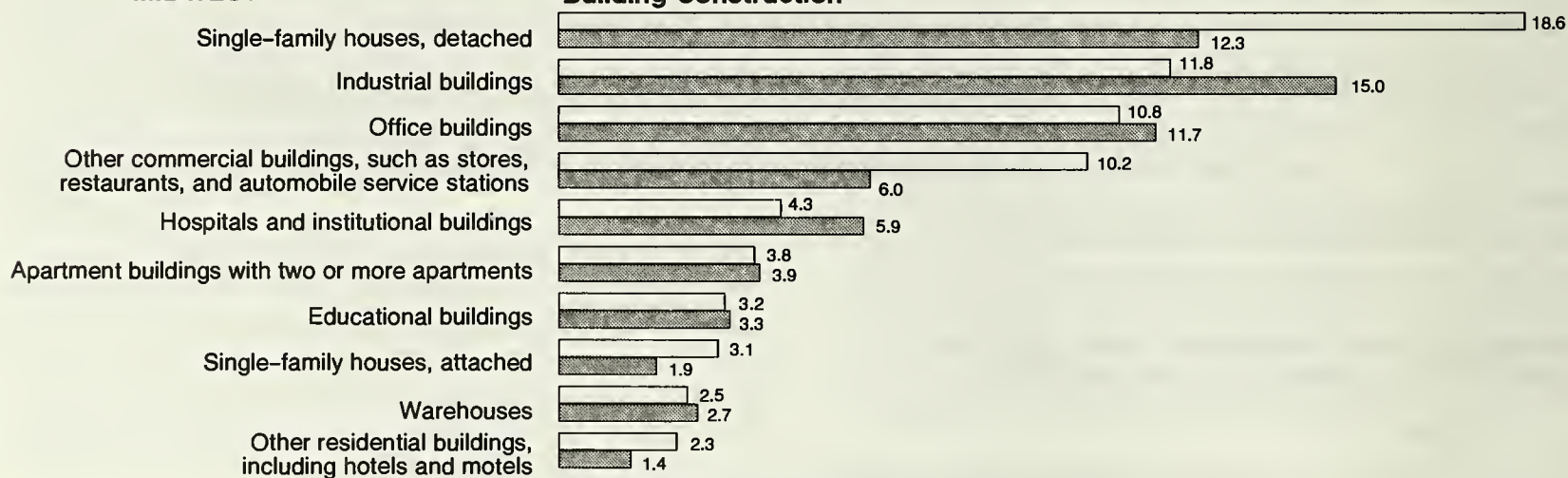


#### Nonbuilding Construction



### MIDWEST

#### Building Construction



#### Nonbuilding Construction

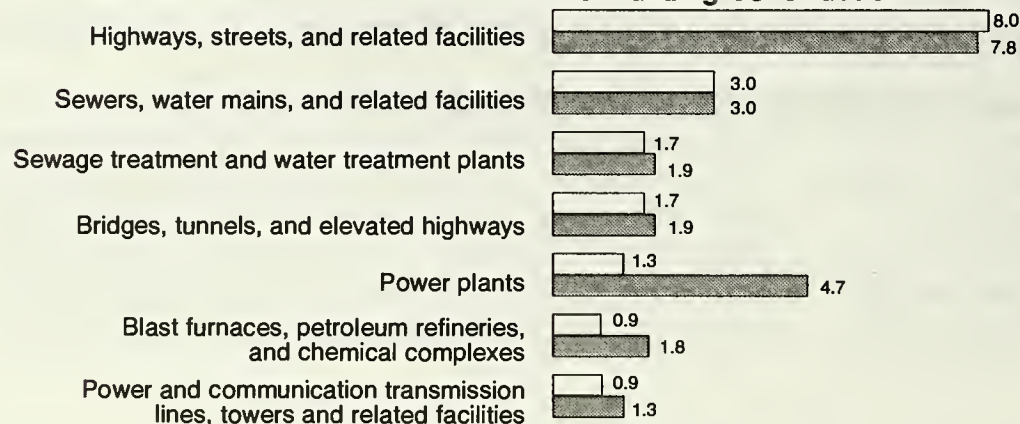




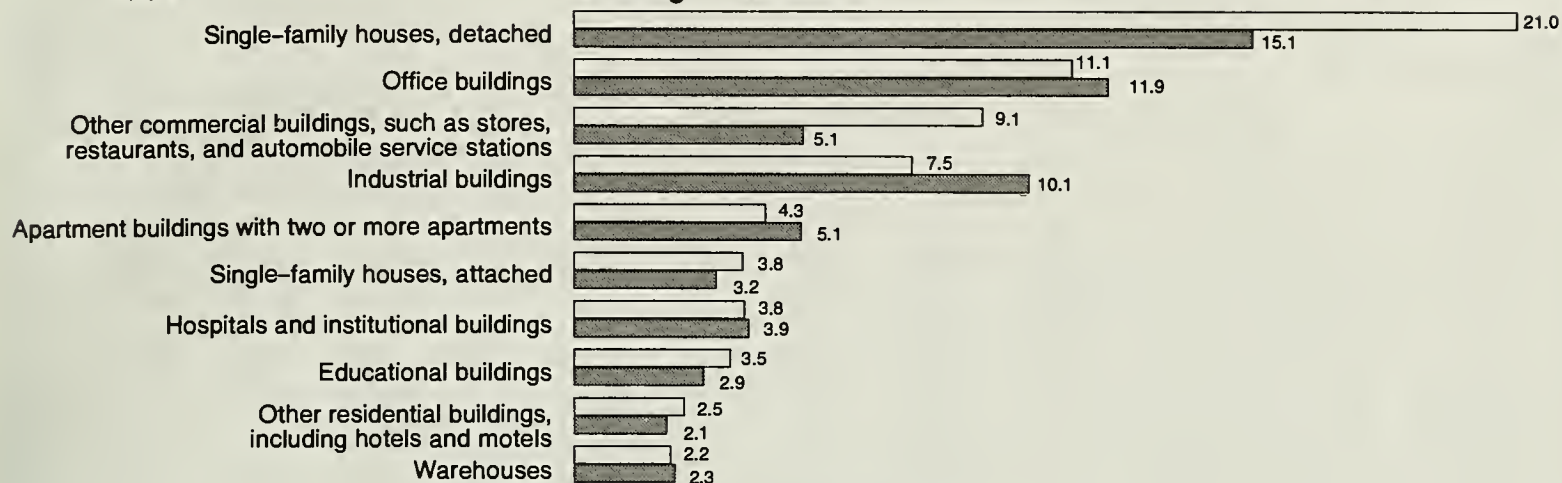


Figure 2. Value of Construction Work by Type of Construction—Con.  
(Percent)

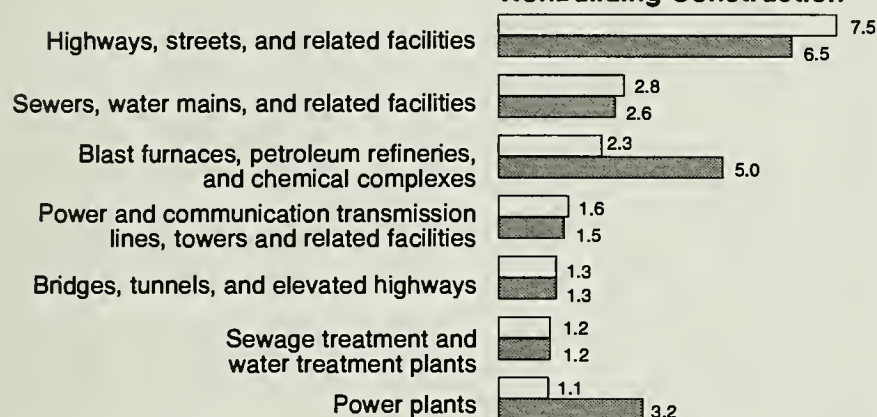
1987   
1982 

## SOUTH

### Building Construction



### Nonbuilding Construction

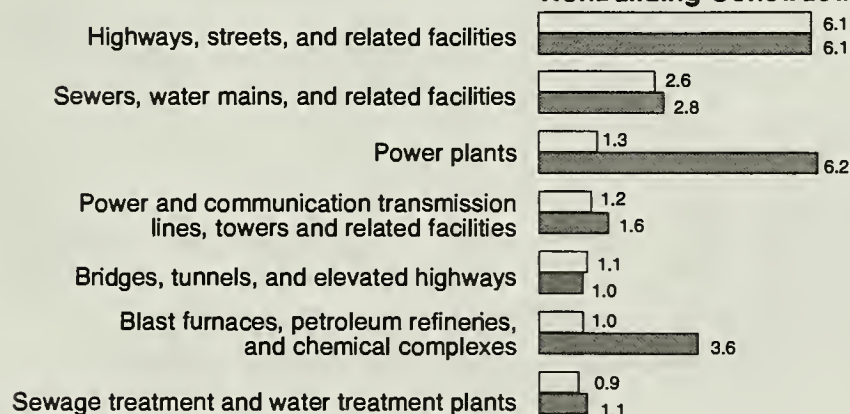


## WEST

### Building Construction



### Nonbuilding Construction





# Table 1. Summary Statistics for Establishments With and Without Payroll by States: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors end working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done <sup>2</sup>		
	A	B	C	D	E	F	G	H	I	J	K	J	K
United States -----	1 951 509	1 523 509	5 054 367	605 046 008	1 407 276	1 383 772	82 580 646	544 233	139 737	5 054 367	522 465 362	(W)	(W)
Alabama -----	30 062	24 200	84 812	8 542 039	22 662	22 294	1 051 902	7 400	1 906	84 812	7 490 137	1	1
Alaska -----	5 227	4 115	12 764	1 888 839	3 720	3 720	162 292	1 507	395	12 764	1 726 547	2	2
Arizona -----	25 730	18 460	97 854	11 918 255	16 827	16 480	1 154 733	8 903	1 980	97 854	10 763 522	1	1
Arkansas -----	23 160	19 992	30 434	3 154 264	18 987	18 829	670 736	4 173	1 163	30 434	2 483 528	2	2
California -----	204 342	163 099	598 320	87 984 753	145 292	145 359	13 286 669	59 050	17 740	598 320	74 698 084	(W)	(W)
Colorado -----	34 989	27 719	79 961	9 810 596	26 032	25 454	1 224 130	8 957	2 265	79 961	8 586 466	1	1
Connecticut -----	34 081	25 401	89 494	12 021 367	23 326	23 014	2 111 457	10 755	2 387	89 494	9 909 910	1	1
Delaware -----	5 427	3 788	19 728	2 036 295	3 533	3 406	263 140	1 894	382	19 728	1 773 155	1	2
District of Columbia -----	1 313	885	11 222	1 520 730	904	853	122 834	409	32	11 222	1 397 896	2	2
Florida -----	112 111	79 346	329 877	37 542 961	78 173	73 727	5 322 365	33 938	5 619	329 877	32 220 596	(W)	1
Georgia -----	60 192	48 455	149 698	18 039 517	46 291	45 125	2 970 224	13 901	3 330	149 698	15 069 293	1	1
Hawaii -----	5 796	4 310	21 706	3 233 759	3 905	3 854	270 626	1 891	456	21 706	2 963 133	1	1
Idaho -----	10 370	8 863	13 847	2 328 129	8 278	8 258	332 024	2 092	605	13 847	1 996 105	2	1
Illinois -----	71 913	54 989	209 154	26 212 664	51 341	50 420	2 918 968	20 572	4 569	209 154	23 293 696	1	1
Indiana -----	42 346	33 748	98 408	10 373 798	31 373	30 604	1 257 428	10 973	3 144	98 408	9 116 370	1	1
Iowa -----	23 699	19 889	37 825	4 013 077	18 389	18 195	582 160	5 310	1 694	37 825	3 430 917	1	1
Kansas -----	22 547	18 842	46 042	5 192 132	16 940	16 843	716 924	5 607	1 999	46 042	4 475 208	1	2
Kentucky -----	31 572	26 563	55 761	5 718 255	25 261	24 929	914 081	6 311	1 634	55 761	4 804 174	1	1
Louisiana -----	26 981	20 851	76 720	6 523 189	20 642	19 652	777 493	6 339	1 199	76 720	5 745 696	1	1
Maine -----	16 008	12 957	32 706	3 356 436	11 583	11 498	554 644	4 425	1 459	32 706	2 801 792	2	2
Maryland -----	34 694	24 028	160 612	19 578 087	22 191	21 561	2 076 023	12 503	2 467	160 612	17 502 064	1	1
Massachusetts -----	61 171	45 908	143 625	19 210 213	43 312	42 436	3 563 092	17 859	3 472	143 625	15 647 121	1	1
Michigan -----	61 599	48 072	140 085	17 255 267	44 553	43 773	2 042 889	17 046	4 299	140 085	15 212 378	1	1
Minnesota -----	40 021	32 601	83 814	11 422 980	30 337	29 865	1 404 793	9 684	2 736	83 814	10 018 187	1	1
Mississippi -----	17 342	14 419	32 450	3 153 869	13 482	13 334	520 037	3 860	1 085	32 450	2 633 842	1	2
Missouri -----	46 787	38 010	105 191	12 415 405	35 330	34 825	1 454 682	11 457	3 185	105 191	10 960 723	1	1
Montana -----	8 807	7 478	10 186	1 233 681	6 670	6 685	226 722	2 137	793	10 186	1 006 959	2	2
Nebraska -----	14 181	11 418	26 566	2 557 914	10 315	10 145	358 519	3 866	1 273	26 566	2 199 395	2	2
Nevada -----	7 496	5 459	32 961	4 022 055	4 950	4 893	340 007	2 546	566	32 961	3 682 048	1	3
New Hampshire -----	17 600	13 723	37 889	4 643 307	12 263	12 146	911 273	5 337	1 577	37 889	3 732 034	1	2
New Jersey -----	59 711	39 957	187 617	24 289 173	37 463	35 525	3 058 776	22 248	4 432	187 617	21 230 397	1	1
New Mexico -----	10 789	8 165	29 139	2 787 666	7 082	7 042	362 027	3 707	1 123	29 139	2 425 639	2	2
New York -----	104 913	71 412	326 979	38 961 146	68 036	64 942	4 289 938	36 877	6 470	326 979	34 671 208	(W)	1
North Carolina -----	63 708	51 351	154 844	15 645 666	46 323	46 041	2 160 706	17 385	5 310	154 844	13 484 960	1	1
North Dakota -----	6 216	5 141	11 066	1 077 450	4 408	4 413	140 847	1 808	728	11 066	936 603	2	3
Ohio -----	76 142	60 797	181 669	21 119 999	55 341	54 814	2 399 380	20 801	5 983	181 669	18 720 619	1	1
Oklahoma -----	31 097	26 713	38 728	4 061 546	25 893	25 451	931 706	5 204	1 262	38 728	3 129 840	1	2
Oregon -----	21 898	16 901	38 504	4 564 219	15 429	15 285	764 384	6 469	1 616	38 504	3 799 835	1	1
Pennsylvania -----	86 344	70 268	234 314	27 392 699	61 269	61 111	3 964 077	25 075	9 157	234 314	23 428 622	(W)	1
Rhode Island -----	9 269	6 403	20 328	2 693 125	6 094	5 895	365 595	3 175	508	20 328	2 327 530	2	2
South Carolina -----	25 455	19 216	95 354	9 815 592	17 679	17 379	1 066 463	7 776	1 837	95 354	8 749 129	1	1
South Dakota -----	6 533	5 601	9 452	936 284	4 881	4 882	173 401	1 652	719	9 452	762 883	3	2
Tennessee -----	43 724	37 854	99 216	11 264 856	34 827	34 953	1 887 050	8 897	2 901	99 216	9 377 806	1	1
Texas -----	146 954	121 332	349 578	38 068 185	114 917	114 025	5 841 061	32 037	7 307	349 578	32 227 124	(W)	1
Utah -----	14 950	12 119	27 287	3 345 984	11 110	11 003	550 629	3 840	1 116	27 287	2 795 355	2	2
Vermont -----	8 678	6 737	16 630	1 813 246	6 039	5 935	278 253	2 639	802	16 630	1 534 993	2	4
Virginia -----	52 115	39 214	171 298	18 295 113	35 489	34 788	2 243 446	16 626	4 426	171 298	16 051 667	1	1
Washington -----	35 091	26 496	85 585	10 740 896	22 673	22 778	1 265 783	12 418	3 718	85 585	9 475 113	1	1
West Virginia -----	11 550	9 356	20 669	1 712 872	8 713	8 586	220 929	2 837	770	20 669	1 491 943	2	2
Wisconsin -----	34 069	27 094	77 419	8 701 940	23 338	23 351	952 393	10 731	3 743	77 419	7 749 547	1	1
Wyoming -----	4 716	3 775	8 952	854 485	3 410	3 396	100 937	1 306	379	8 952	753 548	2	2

Note: Number of establishments in this and subsequent tables represent those in business at any time during year.

<sup>1</sup>May include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>For establishments with payroll in 1987, the dollar value of business includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

# Table 2. Summary Statistics for Establishments With and Without Payroll by States: 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Releive stander error of estimate (percent) for column—	
	Number	Propri- tors and working partners	All em- ployees**	All business receipts	Number	Propri- tors and working partners	All business receipts	Number	Propri- tors and working partners	All em- ployees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
United States -----	1 389 309	1 089 667	4 275 070	365 420 747	932 608	930 114	40 908 315	456 701	159 553	4 275 070	324 512 432	(W)	(W)
Alabama -----	16 699	12 695	67 397	4 926 895	10 917	10 629	437 510	5 782	2 066	67 397	4 489 385	1	1
Alaska -----	5 739	4 686	22 229	2 473 639	3 982	4 087	307 606	1 757	599	22 229	2 166 033	1	1
Arizona -----	17 200	12 222	64 689	5 951 915	10 397	10 221	538 519	6 803	2 001	64 689	5 413 396	1	1
Arkansas -----	17 021	14 518	28 577	2 144 038	13 157	13 128	341 015	3 864	1 390	28 577	1 803 023	2	2
California -----	136 972	111 379	443 349	48 739 078	90 279	92 145	5 462 742	46 693	19 234	443 349	43 276 336	(W)	(W)
Colorado -----	30 986	24 900	93 279	9 474 653	21 533	21 558	998 290	9 453	3 342	93 279	8 476 363	1	1
Connecticut -----	19 033	13 968	61 233	4 711 061	11 831	11 711	517 417	7 202	2 257	61 233	4 193 644	1	1
Delaware -----	3 420	2 376	15 618	1 637 074	2 029	2 005	106 625	1 391	371	15 618	1 530 449	2	1
District of Columbia -----	1 268	864	7 461	789 566	829	826	85 948	439	38	7 461	703 618	2	2
Florida -----	67 476	44 727	261 121	20 823 535	40 032	38 219	2 470 735	27 444	6 508	261 121	18 352 800	1	(W)

See footnotes at end of table.



Table 2. **Summary Statistics for Establishments With and Without Payroll by States: 1982**

—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
Georgia .....	30 145	23 005	106 130	8 055 144	20 019	19 575	974 152	10 126	3 430	106 130	7 080 992	1	1
Hawaii .....	4 259	2 799	18 665	2 032 087	2 398	2 403	178 744	1 861	396	18 665	1 853 343	1	1
Idaho .....	9 578	8 445	15 739	1 541 506	7 448	7 532	255 179	2 130	913	15 739	1 286 327	2	2
Illinois .....	54 145	42 085	170 822	15 376 877	35 827	35 847	1 914 116	18 318	6 238	170 822	13 462 761	1	(W)
Indiana .....	34 232	28 119	77 804	5 655 048	24 584	24 424	617 722	9 648	3 695	77 804	5 037 326	1	1
Iowa .....	21 614	17 971	40 894	3 284 835	15 115	15 102	543 061	6 499	2 869	40 894	2 741 774	2	1
Kansas .....	19 433	16 412	42 414	3 396 677	13 980	13 980	443 848	5 453	2 432	42 414	2 952 829	1	1
Kentucky .....	24 539	20 796	45 497	3 342 249	18 572	18 537	510 584	5 967	2 259	45 497	2 831 665	1	1
Louisiana .....	24 126	17 497	119 557	8 707 885	15 905	15 270	668 627	8 221	2 227	119 557	8 039 258	1	1
Maine .....	9 417	7 851	17 490	1 180 521	6 721	6 716	165 219	2 696	1 135	17 490	1 015 302	3	2
Maryland .....	22 523	15 879	103 805	8 598 380	13 365	13 234	615 660	9 158	2 645	103 805	7 982 720	1	1
Massachusetts .....	33 177	24 763	96 314	8 417 094	21 798	21 505	1 339 506	11 379	3 258	96 314	7 077 588	1	1
Michigan .....	43 875	34 312	105 675	10 141 165	29 922	29 821	839 520	13 953	4 491	105 675	9 301 645	1	(W)
Minnesota .....	31 993	25 896	73 461	6 894 212	22 733	22 628	884 886	9 260	3 268	73 461	6 009 326	1	1
Mississippi .....	11 191	9 100	37 278	2 562 651	7 625	7 578	247 087	3 566	1 522	37 278	2 315 564	1	1
Missouri .....	31 105	24 853	84 620	7 291 702	21 990	21 803	653 916	9 115	3 050	84 620	6 637 786	1	1
Montana .....	8 857	7 644	12 755	1 096 854	6 630	6 720	206 159	2 227	924	12 755	890 695	2	2
Nebraska .....	14 179	11 822	27 200	2 110 828	10 010	9 968	375 937	4 169	1 854	27 200	1 734 891	2	2
Nevada .....	5 600	3 956	24 344	2 347 369	3 317	3 297	195 107	2 283	659	24 344	2 152 262	1	1
New Hampshire .....	8 433	6 819	23 234	1 546 638	5 740	5 726	201 456	2 693	1 093	23 234	1 345 182	2	2
New Jersey .....	36 823	24 664	121 467	10 278 300	21 293	20 655	1 337 638	15 530	4 009	121 467	8 940 662	1	1
New Mexico .....	8 405	6 383	30 390	2 027 490	4 909	4 945	203 557	3 496	1 438	30 390	1 823 933	2	2
New York .....	67 888	46 832	245 558	19 788 712	41 367	40 686	1 752 171	26 521	6 146	245 558	18 036 541	1	(W)
North Carolina .....	39 566	31 948	111 741	7 464 130	26 866	26 789	849 838	12 700	5 159	111 741	6 614 292	1	1
North Dakota .....	6 133	5 135	12 950	1 074 965	4 164	4 176	129 479	1 969	959	12 950	945 486	2	2
Ohio .....	57 139	45 618	151 902	11 915 940	39 061	39 074	1 214 843	18 078	6 544	151 902	10 701 097	1	1
Oklahoma .....	32 234	27 577	63 606	5 676 008	25 153	25 055	1 327 102	7 081	2 522	63 606	4 348 906	1	1
Oregon .....	20 920	17 227	35 551	3 268 321	14 845	15 055	440 632	6 075	2 172	35 551	2 827 689	2	1
Pennsylvania .....	60 282	50 459	194 058	15 701 299	39 669	40 365	1 549 447	20 613	10 094	194 058	14 151 852	1	(W)
Rhode Island .....	5 374	3 449	14 686	1 415 959	3 059	2 943	106 818	2 315	506	14 686	1 309 141	2	1
South Carolina .....	15 079	11 263	99 580	6 221 913	9 051	8 955	378 444	6 028	2 308	99 580	5 843 469	1	1
South Dakota .....	6 323	5 446	8 866	648 496	4 600	4 639	124 486	1 723	807	8 866	524 010	3	3
Tennessee .....	29 336	25 286	73 506	5 989 144	21 778	22 023	717 091	7 558	3 263	73 506	5 272 053	1	1
Texas .....	122 262	98 942	475 803	42 384 789	87 485	87 454	4 886 456	34 777	11 488	475 803	37 498 339	(W)	(W)
Utah .....	11 636	9 345	29 501	2 622 913	7 921	7 936	341 680	3 715	1 409	29 501	2 281 233	2	1
Vermont .....	5 403	4 405	9 795	746 669	3 620	3 593	103 979	1 783	812	9 795	642 690	3	3
Virginia .....	34 128	26 470	105 935	7 576 596	22 394	22 296	854 887	11 734	4 174	105 935	6 721 709	1	1
Washington .....	28 999	22 803	77 690	7 696 606	18 512	18 972	686 565	10 487	3 831	77 690	7 010 041	1	1
West Virginia .....	9 266	7 374	23 068	1 418 010	6 191	6 173	133 241	3 075	1 201	23 068	1 284 769	2	2
Wisconsin .....	27 876	21 780	65 892	4 993 391	17 821	17 922	494 366	10 055	3 858	65 892	4 499 025	1	1
Wyoming .....	5 983	4 878	14 851	1 259 898	4 164	4 213	178 708	1 819	665	14 851	1 081 190	2	2

<sup>1</sup>May include data for an unknown number of cemetery subdividers and developers.Table 3. **Summary Statistics by Size Class of the Dollar Value of Business Done for Establishments With and Without Payroll: 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done <sup>2</sup>		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>United States .....</b>	<b>1 951 509</b>	<b>1 523 509</b>	<b>5 054 367</b>	<b>605 046 008</b>	<b>1 407 276</b>	<b>1 383 772</b>	<b>82 580 646</b>	<b>544 233</b>	<b>139 737</b>	<b>5 054 367</b>	<b>522 465 362</b>	<b>(W)</b>	<b>(W)</b>
\$10,000,000 or more .....	7 283	734	1 133 155	201 088 485	278	310	5 758 395	7 005	424	1 133 155	195 330 090	(W)	(W)
\$5,000,000 to \$9,999,999 .....	10 160	1 252	529 285	69 669 986	664	734	4 587 205	9 496	518	529 285	65 082 781	(W)	1
\$2,500,000 to \$4,999,999 .....	21 872	2 642	641 010	75 396 773	1 519	1 509	5 192 612	20 353	1 133	641 010	70 204 161	(W)	1
\$1,000,000 to \$2,499,999 .....	58 613	9 736	874 398	90 316 778	5 693	4 942	8 531 708	52 920	4 794	874 398	81 785 070	(W)	1
\$500,000 to \$999,999 .....	78 275	21 630	619 924	54 647 512	12 503	10 517	8 599 540	65 772	11 113	619 924	46 047 972	1	1
\$250,000 to \$499,999 .....	121 716	51 265	534 536	42 574 087	29 357	26 072	10 088 691	92 359	25 193	534 536	32 485 396	1	1
\$100,000 to \$249,999 .....	242 433	144 178	479 445	38 332 058	96 269	92 176	14 686 068	146 164	52 002	479 445	23 645 990	1	1
\$50,000 to \$99,999 .....	(S)	(S)	(S)	(S)	145 147	142 664	10 189 792	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 .....	(S)	(S)	(S)	(S)	207 428	204 880	7 359 942	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 .....	(S)	(S)	(S)	(S)	908 418	899 968	7 586 693	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 .....	(NA)	(NA)	(NA)	(NA)	318 933	315 786	5 216 688	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	207 770	205 860	1 512 948	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	155 642	154 301	569 317	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 .....	(NA)	(NA)	(NA)	(NA)	226 073	224 021	287 740	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>May include data for an unknown number of cemetery subdividers and developers.<sup>2</sup>For establishments with payroll in 1987, the dollar value of business includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.



**Table 4. General Statistics for Establishments With Payroll by States: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	1987							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States .....	544 233	5 054 367	3 988 701	111 067 318	79 741 661	6 743 563	499 982 234	367 745 733
Alabama .....	7 400	84 812	69 395	1 588 642	1 207 030	119 141	7 261 360	5 005 363
Alaska .....	1 507	12 764	10 091	428 265	307 897	17 677	1 680 844	1 351 935
Arizona .....	8 903	97 854	75 357	1 986 031	1 365 645	123 627	9 973 925	6 792 209
Arkansas .....	4 173	30 434	24 421	501 685	368 756	41 975	2 400 570	1 850 733
California .....	59 050	598 320	466 975	14 905 469	10 567 484	738 871	71 177 525	50 071 124
Colorado .....	8 957	79 961	61 015	1 636 597	1 153 626	101 370	8 276 694	5 626 127
Connecticut .....	10 755	89 494	70 271	2 267 162	1 587 610	121 894	9 549 266	7 335 639
Delaware .....	1 894	19 728	15 904	409 170	304 509	27 028	1 697 841	1 277 477
District of Columbia .....	409	11 222	8 816	285 326	197 960	14 821	1 351 297	734 174
Florida .....	33 938	329 877	253 108	5 990 377	4 069 807	435 127	30 391 051	21 782 192
Georgia .....	13 901	149 698	118 942	2 822 054	1 973 385	199 598	14 405 566	10 341 232
Hawaii .....	1 891	21 706	16 582	606 858	435 959	28 192	2 849 780	1 958 320
Idaho .....	2 092	13 847	10 164	278 255	183 967	16 019	1 723 338	765 202
Illinois .....	20 572	209 154	165 730	5 482 516	4 038 240	280 437	22 575 712	16 844 405
Indiana .....	10 973	98 408	78 492	2 169 441	1 608 886	134 808	8 799 822	6 906 193
Iowa .....	5 310	37 825	30 106	723 405	546 378	52 714	3 341 668	2 564 452
Kansas .....	5 607	46 042	36 830	951 720	701 313	63 210	4 291 125	3 230 058
Kentucky .....	6 311	55 761	45 192	1 014 124	759 232	77 107	4 603 454	3 527 907
Louisiana .....	6 339	76 720	62 823	1 476 504	1 126 622	107 665	5 598 712	4 500 503
Maine .....	4 425	32 706	26 779	636 884	488 532	49 147	2 701 081	2 164 313
Maryland .....	12 503	160 612	125 694	3 513 804	2 389 182	215 297	16 523 797	11 679 832
Massachusetts .....	17 859	143 625	112 184	3 505 838	2 466 933	192 503	15 082 398	11 169 770
Michigan .....	17 046	140 085	110 453	3 340 818	2 425 766	188 157	14 654 738	10 851 030
Minnesota .....	9 684	83 814	66 237	2 093 881	1 543 598	115 018	9 702 867	7 143 880
Mississippi .....	3 860	32 450	26 649	522 811	390 641	46 216	2 557 272	1 937 885
Missouri .....	11 457	105 191	83 292	2 444 120	1 796 436	137 526	10 501 073	7 702 288
Montana .....	2 137	10 186	7 974	192 743	140 231	11 871	975 525	763 533
Nebraska .....	3 866	26 566	20 897	479 247	349 591	35 792	2 137 566	1 689 401
Nevada .....	2 546	32 961	25 026	820 432	585 316	40 288	3 542 235	2 561 597
New Hampshire .....	5 337	37 889	29 889	782 587	554 077	50 929	3 547 066	2 673 614
New Jersey .....	22 248	187 617	146 565	4 788 380	3 363 212	250 783	20 064 340	15 427 920
New Mexico .....	3 707	29 139	23 233	499 966	370 116	39 049	2 347 300	1 769 937
New York .....	36 877	326 979	259 154	8 319 456	6 006 049	445 300	33 594 491	25 981 282
North Carolina .....	17 385	154 844	124 155	2 680 093	1 914 821	216 301	12 928 252	9 487 132
North Dakota .....	1 808	11 066	8 816	198 974	150 312	15 159	901 567	711 502
Ohio .....	20 801	181 669	143 254	4 094 094	3 011 320	245 757	18 095 164	13 411 631
Oklahoma .....	5 204	38 728	30 393	724 364	531 469	49 965	3 030 883	2 342 871
Oregon .....	6 469	38 504	29 685	786 241	573 291	44 590	3 675 649	2 759 695
Pennsylvania .....	25 075	234 314	188 158	5 400 446	3 989 315	324 784	22 632 570	17 269 813
Rhode Island .....	3 175	20 328	15 822	469 283	336 540	26 459	2 271 298	1 557 753
South Carolina .....	7 776	95 354	77 732	1 812 753	1 315 337	135 252	7 870 379	5 798 488
South Dakota .....	1 652	9 452	7 593	152 067	113 805	12 615	724 664	582 446
Tennessee .....	8 897	99 216	80 665	1 860 226	1 340 801	140 801	9 058 512	6 548 024
Texas .....	32 037	349 578	275 293	7 025 641	5 038 201	470 189	30 712 341	22 700 377
Utah .....	3 840	27 287	21 548	535 088	402 087	35 644	2 698 609	1 966 934
Vermont .....	2 639	16 630	12 859	306 737	223 511	22 607	1 479 576	1 097 584
Virginia .....	16 626	171 298	136 253	3 287 807	2 263 697	234 578	15 218 417	11 223 932
Washington .....	12 418	85 585	66 707	1 948 713	1 407 909	103 843	9 149 222	6 693 759
West Virginia .....	2 837	20 669	17 059	401 356	309 579	27 907	1 440 174	1 240 308
Wisconsin .....	10 731	77 419	61 234	1 750 847	1 316 924	105 704	7 481 951	5 806 805
Wyoming .....	1 306	8 952	7 211	168 001	128 734	12 227	731 687	565 131

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.



1987—Con.						1982			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost for machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
230 174 083	150 545 463	132 236 501	7 752 741	8 393 871	62 614 884	4 275 070	312 178 494	145 965 137	(W)	(W)	(W)	US
2 946 167	2 225 362	2 255 997	83 345	128 753	896 381	67 397	4 374 981	1 725 329	1	1	5	AL
932 139	464 400	328 908	62 247	17 288	297 892	22 229	2 055 137	1 101 841	2	2	7	AK
4 213 191	2 916 720	3 181 716	152 075	145 696	1 188 307	64 689	5 002 050	2 213 619	1	1	2	AZ
1 032 258	880 464	549 837	37 286	48 238	412 835	28 577	1 733 824	867 075	2	1	5	AR
32 876 569	18 895 502	21 106 400	1 327 711	898 871	6 367 653	443 349	40 579 275	19 628 452	(W)	(W)	1	CA
3 506 543	2 289 022	2 650 567	138 551	122 066	1 218 245	93 279	8 158 522	3 481 803	1	1	3	CO
4 793 254	2 722 369	2 213 627	132 181	192 996	1 160 941	61 233	4 052 488	2 027 595	1	1	3	CT
790 909	531 876	420 364	27 577	43 290	258 945	15 618	1 497 170	602 031	1	2	5	DE
500 280	254 364	617 122	16 325	8 543	64 688	7 461	645 082	277 143	2	2	5	DC
12 538 541	9 964 961	8 608 858	434 823	541 657	3 488 607	261 121	17 475 921	7 665 269	(W)	1	2	FL
5 963 428	4 657 453	4 064 334	179 082	248 622	1 713 231	106 130	6 853 334	2 846 983	1	1	3	GA
1 288 730	759 038	891 460	45 349	44 550	299 204	18 665	1 785 660	855 164	1	1	3	HI
585 196	449 015	958 135	22 198	17 840	208 902	15 739	1 232 787	475 451	2	2	9	ID
10 927 571	6 355 742	5 731 306	303 602	365 010	2 718 590	170 822	13 109 617	6 568 407	1	(W)	2	IL
4 205 974	2 918 983	1 893 628	118 318	186 895	1 247 635	77 804	4 884 399	2 470 522	1	1	3	IN
1 468 040	1 173 136	777 216	42 038	66 685	672 087	40 894	2 658 633	1 203 575	1	1	4	IA
1 958 207	1 411 227	1 061 067	69 519	88 764	845 598	42 414	2 870 903	1 315 858	1	1	3	KS
2 060 016	1 609 853	1 075 547	69 491	125 516	823 930	45 497	2 744 178	1 316 744	1	1	3	KY
2 826 778	1 780 289	1 098 208	108 462	81 797	1 221 879	119 557	7 809 574	4 133 448	1	1	3	LA
1 374 526	853 975	536 767	55 706	89 436	545 329	17 490	985 663	486 011	2	2	6	ME
7 694 849	4 430 229	4 843 964	239 862	282 045	1 884 913	103 805	7 536 040	3 538 825	1	1	2	MD
7 056 735	4 419 176	3 912 628	235 844	260 507	1 638 571	96 314	6 900 454	3 086 626	1	1	3	MA
6 915 232	4 372 868	3 803 707	194 796	278 704	1 849 180	105 675	8 991 253	4 182 301	1	1	2	MI
4 349 314	3 012 842	2 558 986	153 966	176 948	1 495 639	73 461	5 826 218	2 562 920	1	1	3	MN
1 109 665	884 093	619 386	38 726	54 648	501 372	37 278	2 253 837	1 022 752	1	2	4	MS
4 867 062	3 173 555	2 798 785	114 690	152 912	1 379 767	84 620	6 450 207	2 878 793	1	1	3	MO
507 705	282 271	211 991	18 440	19 948	238 232	12 755	864 533	443 360	2	2	6	MT
952 428	783 692	448 164	28 130	39 534	387 047	27 195	1 689 202	801 332	2	2	4	NE
1 648 169	976 928	980 638	67 085	52 530	366 979	24 344	2 072 786	1 007 727	1	1	4	NV
1 608 817	1 156 846	873 452	58 379	90 998	573 305	23 234	1 306 758	672 103	1	2	4	NH
10 165 521	5 937 965	4 636 419	285 212	326 885	2 046 795	121 467	8 718 512	4 392 823	1	1	2	NJ
1 071 100	749 009	577 363	43 671	35 992	392 459	30 390	1 734 554	846 845	2	2	4	NM
17 131 349	9 547 568	7 613 209	503 179	504 538	3 192 104	245 558	17 682 919	8 635 210	(W)	(W)	2	NY
5 364 564	4 427 166	3 441 119	179 901	284 885	2 004 237	111 741	6 430 837	2 659 520	1	1	3	NC
412 270	328 238	190 065	16 467	22 244	241 928	12 950	924 697	430 697	2	2	6	ND
8 287 663	5 554 659	4 683 533	232 828	294 167	2 153 382	151 902	10 360 020	4 948 283	1	1	2	OH
1 421 363	999 598	688 011	62 781	49 442	567 369	63 606	4 236 025	2 038 342	1	1	5	OK
1 739 743	1 117 657	915 953	77 728	61 510	474 799	35 551	2 751 886	1 289 292	1	1	5	OR
11 065 791	6 769 229	5 362 757	318 060	427 950	2 688 025	194 058	13 670 606	7 048 422	(W)	1	2	PA
952 879	633 075	713 545	26 281	42 928	220 888	14 686	1 289 115	471 711	2	2	8	RI
3 787 970	2 802 017	2 071 890	114 218	120 952	818 578	99 580	5 679 199	2 312 738	1	1	3	SC
352 553	264 724	142 217	9 600	13 816	182 169	8 866	507 258	228 891	3	3	7	SD
3 743 920	2 985 424	2 510 488	122 664	167 937	1 177 482	73 506	5 110 219	2 113 330	1	1	3	TN
13 767 035	9 775 204	8 011 964	596 422	396 591	4 656 973	475 803	35 936 332	16 251 869	(W)	(W)	2	TX
1 181 307	856 277	731 675	54 986	50 893	521 214	29 501	2 206 144	979 248	2	2	5	UT
634 232	495 052	381 992	19 844	31 236	208 431	9 795	622 437	266 317	2	2	10	VT
6 624 200	4 860 802	3 994 485	203 361	340 238	2 209 228	105 935	6 445 787	2 852 040	1	1	3	VA
4 197 508	2 698 214	2 455 463	163 724	132 103	1 146 463	77 690	6 834 101	3 396 250	1	1	3	WA
825 347	460 447	199 865	25 846	39 628	308 158	23 068	1 236 899	741 182	2	2	6	WV
3 605 139	2 436 046	1 675 146	99 749	162 187	1 206 644	65 892	4 361 699	2 091 361	1	1	3	WI
344 334	240 868	166 556	20 390	16 236	231 653	14 851	1 038 734	511 670	2	2	7	WY

**Table 5. Detailed Statistics for Establishments With Payroll by Geographic Area: 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and States included in census geographic regions, see appendixes]

Item	Establishments located in the—					Relative standard error of estimate (percent) for column—				
	United States	Northeast	Midwest	South	West					
	A	B	C	D	E	A	B	C	D	E
Number of establishments in business during year .....	544 233	128 394	119 513	181 495	114 829	(W)	(W)	(W)	(W)	(W)
Proprietors and working partners .....	139 737	30 266	34 076	42 636	32 757	1	1	1	1	1
All employees** .....	5 054 367	1 089 585	1 026 699	1 881 009	1 057 073	(W)	(W)	(W)	(W)	(W)
Construction workers:										
March .....	3 649 834	761 480	691 663	1 429 907	766 783	(W)	(W)	(W)	(W)	(W)
May .....	4 022 737	874 276	825 822	1 501 340	821 297	(W)	(W)	(W)	(W)	(W)
August .....	4 282 447	938 199	906 050	1 562 023	876 173	(W)	(W)	(W)	(W)	(W)
November .....	3 999 788	872 789	828 224	1 476 733	822 041	(W)	(W)	(W)	(W)	(W)
Average .....	3 988 701	861 686	812 940	1 492 501	821 573	(W)	(W)	(W)	(W)	(W)
Other employees:										
March .....	1 051 023	222 237	207 781	388 754	232 250	(W)	(W)	(W)	(W)	(W)
May .....	1 059 048	226 610	212 941	384 999	234 497	(W)	(W)	(W)	(W)	(W)
August .....	1 080 715	231 875	218 212	391 441	239 184	(W)	(W)	(W)	(W)	(W)
November .....	1 072 256	230 977	216 178	388 979	236 120	(W)	(W)	(W)	(W)	(W)
Average .....	1 065 760	227 925	213 778	388 543	235 513	(W)	(W)	(W)	(W)	(W)
Construction worker hours (thousands):										
January to March .....	1 482 914	316 527	282 745	588 496	295 145	(W)	(W)	(W)	(W)	(W)
April to June .....	1 705 168	376 503	351 643	645 596	331 424	(W)	(W)	(W)	(W)	(W)
July to September .....	1 845 221	410 541	397 364	680 727	356 587	(W)	(W)	(W)	(W)	(W)
October to December .....	1 710 259	380 837	355 149	644 155	330 117	(W)	(W)	(W)	(W)	(W)
Total hours worked .....	6 743 563	1 484 410	1 386 902	2 558 976	1 313 274	(W)	(W)	(W)	(W)	(W)
Payroll, all employees .....	111 067 318	26 476 775	23 881 134	35 916 743	24 792 664	(W)	(W)	(W)	(W)	(W)
Payroll, construction workers .....	79 741 661	19 015 782	17 602 576	25 501 035	17 622 267	(W)	(W)	(W)	(W)	(W)
Payroll, other employees .....	31 325 656	7 460 993	6 278 558	10 415 707	7 170 397	(W)	(W)	(W)	(W)	(W)
First quarter payroll, all employees .....	24 368 479	5 612 332	5 007 275	8 204 370	5 544 500	(W)	(W)	(W)	(W)	(W)
Employer costs for fringe benefits, all employees .....	24 936 641	6 299 996	5 746 408	6 893 695	5 996 540	(W)	(W)	(W)	(W)	(W)
Legally required expenditures .....	17 015 195	4 240 824	3 691 552	5 031 416	4 051 402	(W)	(W)	(W)	(W)	(W)
Voluntary expenditures .....	7 921 445	2 059 171	2 054 856	1 862 279	1 945 137	(W)	(W)	(W)	(W)	(W)
Dollar value of business done .....	522 465 362	115 283 611	106 876 531	175 632 859	124 672 360	(W)	(W)	(W)	(W)	(W)
Value of construction work <sup>1</sup> .....	499 982 234	110 922 090	103 207 922	167 049 883	118 802 337	(W)	(W)	(W)	(W)	(W)
Value of construction work subcontracted in from others .....	118 805 018	26 083 852	24 341 743	37 358 711	31 020 711	(W)	1	1	1	1
Other business and land receipts .....	22 483 128	4 361 519	3 668 608	8 582 969	5 870 027	1	1	1	1	1
Net value of construction work† .....	367 745 733	84 677 691	77 444 096	121 978 438	83 645 507	(W)	(W)	(W)	(W)	(W)
Value added†† .....	230 174 083	54 783 108	48 301 458	72 997 296	54 092 240	(W)	(W)	(W)	(W)	(W)
Selected costs .....	282 781 966	58 779 658	57 549 548	98 601 004	67 851 754	(W)	(W)	(W)	(W)	(W)
Materials, components, and supplies .....	142 839 360	30 929 835	30 141 970	50 755 611	31 011 943	(W)	(W)	(W)	(W)	(W)
Construction work subcontracted to others .....	132 236 501	26 244 399	25 763 826	45 071 445	35 156 830	(W)	1	1	(W)	1
Selected power, fuels, and lubricants .....	7 706 103	1 605 423	1 643 751	2 773 948	1 682 980	(W)	(W)	(W)	(W)	(W)
Electricity .....	1 112 807	239 991	211 445	410 922	250 448	(W)	1	1	1	1
Natural gas .....	306 133	54 198	97 840	93 530	60 563	(W)	1	1	1	1
Gasoline and diesel fuel .....	5 761 611	1 201 583	1 222 194	2 079 004	1 258 828	(W)	(W)	(W)	(W)	(W)
On highway use .....	4 156 234	921 496	845 468	1 470 156	919 114	(W)	(W)	(W)	(W)	(W)
Off highway use .....	1 605 376	280 087	376 726	608 848	339 714	(W)	1	1	1	1
Other, including lubricating oils and greases .....	525 551	109 650	112 270	190 490	113 140	(W)	1	1	1	1
Rental cost for machinery, equipment, and buildings .....	7 752 741	1 634 690	1 383 710	2 540 181	2 194 159	(W)	1	1	1	1
For machinery and equipment .....	5 452 793	1 138 721	952 498	1 799 740	1 561 832	(W)	1	1	1	1
For buildings .....	2 299 948	495 969	431 211	740 441	632 326	(W)	1	1	1	1
Selected purchased services .....	7 616 501	1 527 626	1 629 245	2 698 825	1 760 803	(W)	1	1	(W)	1
Communication services .....	2 080 346	481 001	404 306	695 158	499 880	(W)	1	1	1	1
Repairs to buildings and other structures .....	450 924	106 429	94 064	153 224	97 206	1	2	2	2	2
Repairs to machinery and equipment .....	5 085 230	940 196	1 130 874	1 850 442	1 163 717	(W)	1	1	(W)	1
Ownership of construction projects:										
Value of construction work .....	499 982 234	110 922 090	103 207 922	167 049 883	118 802 337	(W)	(W)	(W)	(W)	(W)
Government owned .....	98 365 575	18 403 012	22 053 549	33 837 342	24 071 671	(W)	1	1	1	1
Federal .....	26 441 269	3 665 897	5 307 614	9 797 524	7 670 233	1	1	1	1	1
State and local .....	71 924 306	14 737 115	16 745 934	24 039 818	16 401 438	(W)	1	1	1	1
Privately owned .....	401 616 659	92 519 077	81 154 373	133 212 541	94 730 666	(W)	(W)	(W)	(W)	(W)

<sup>1</sup>In earlier census, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.



**Table 6. Detailed Statistics for Establishments With Payroll by Geographic Area: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and States included in census geographic regions, see appendixes]

Item	Establishments located in the—					Relative standard error of estimate (percent) for column—				
	United States	Northeast	Midwest	South	West					
	A	B	C	D	E	A	B	C	D	E
Number of establishments in business during year .....	456 701	90 734	108 244	158 918	98 804	(W)	1	1	(W)	1
Proprietors and working partners .....	159 553	29 315	40 071	52 578	37 588	1	1	1	1	1
All employees** .....	4 275 070	783 838	862 504	1 745 689	883 039	(W)	(W)	(W)	(W)	(W)
Construction workers:										
March .....	3 176 450	544 414	580 288	1 398 996	652 751	(W)	(W)	(W)	(W)	(W)
May .....	3 473 450	647 056	701 704	1 441 925	682 764	(W)	(W)	(W)	(W)	(W)
August .....	3 611 601	680 008	761 917	1 460 822	708 853	(W)	(W)	(W)	(W)	(W)
November .....	3 372 635	637 819	688 639	1 384 339	661 837	(W)	(W)	(W)	(W)	(W)
Average .....	3 453 239	636 349	694 638	1 435 340	686 910	(W)	(W)	(W)	(W)	(W)
Other employees:										
March .....	813 365	146 365	166 587	306 482	193 929	(W)	(W)	(W)	(W)	(W)
May .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
August .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
November .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Average .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Construction worker hours (thousands):										
January to March .....	1 259 303	216 508	223 946	577 564	241 283	(W)	(W)	(W)	(W)	(W)
April to June .....	1 411 010	260 278	273 970	619 356	257 405	(W)	(W)	(W)	(W)	(W)
July to September .....	1 510 267	280 342	307 104	647 720	275 100	(W)	(W)	(W)	(W)	(W)
October to December .....	1 387 431	260 936	271 996	606 160	248 338	(W)	(W)	(W)	(W)	(W)
Total hours worked .....	5 568 012	1 018 065	1 077 018	2 450 801	1 022 127	(W)	(W)	(W)	(W)	(W)
Payroll, all employees .....	78 665 661	14 458 466	16 782 988	29 005 701	18 418 506	(W)	(W)	(W)	(W)	(W)
Payroll, construction workers .....	60 174 654	11 227 583	12 941 223	22 334 796	13 671 051	(W)	(W)	(W)	(W)	(W)
Payroll, other employees .....	18 491 007	3 230 883	3 841 765	6 670 904	4 747 454	(W)	(W)	(W)	(W)	(W)
First quarter payroll, all employees .....	17 443 454	3 091 436	3 552 636	6 553 724	4 245 658	(W)	(W)	(W)	(W)	(W)
Employer costs for fringe benefits, all employees .....	14 444 427	2 776 439	2 982 269	5 167 029	3 518 688	(W)	(W)	(W)	(W)	(W)
Legally required expenditures .....	10 745 740	2 072 438	2 231 402	3 892 992	2 548 907	(W)	(W)	(W)	(W)	(W)
Voluntary expenditures .....	3 698 686	704 000	750 867	1 274 037	969 781	(W)	(W)	(W)	(W)	(W)
All business receipts .....	324 512 432	56 712 606	64 547 961	122 713 020	80 538 845	(W)	(W)	(W)	(W)	(W)
Total construction receipts <sup>1</sup> .....	312 178 494	55 228 955	62 634 115	117 999 247	76 316 175	(W)	(W)	(W)	(W)	(W)
Receipts for work subcontracted in from others .....	69 838 064	12 754 556	13 617 914	25 519 911	17 945 682	(W)	(W)	(W)	(W)	(W)
Other business and land receipts .....	12 333 937	1 224 432	1 627 749	3 051 511	3 149 091	(W)	1	1	(W)	(W)
Net construction receipts† .....	233 267 426	42 374 132	47 516 903	87 956 922	55 419 468	(W)	(W)	(W)	(W)	(W)
Value added†† .....	145 965 137	27 086 822	29 682 957	52 964 628	36 230 728	(W)	(W)	(W)	(W)	(W)
Selected costs .....	176 166 141	29 366 565	34 578 907	68 086 131	43 234 538	(W)	(W)	(W)	(W)	(W)
Materials, components, and supplies .....	90 248 568	15 529 437	18 150 046	35 621 877	20 947 207	(W)	(W)	(W)	(W)	(W)
Construction work subcontracted to others .....	78 911 067	12 854 822	15 117 212	30 042 326	20 896 706	(W)	(W)	(W)	(W)	(W)
Selected power, fuels, and lubricants .....	6 106 506	982 305	1 311 648	2 421 927	1 390 624	(W)	(W)	(W)	(W)	(W)
Electricity .....	848 737	151 691	157 757	342 144	197 144	(W)	1	1	(W)	1
Natural gas .....	269 949	44 382	88 032	82 118	55 416	1	1	1	1	1
Gasoline and diesel fuel .....	4 573 509	719 669	973 328	1 836 517	1 043 993	(W)	1	(W)	(W)	(W)
On highway use .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Other, including lubricating oils and greases .....	414 309	66 562	92 530	161 147	94 069	(W)	1	1	1	1
Rental cost for machinery, equipment, and buildings .....	4 511 827	748 782	779 489	1 707 881	1 275 674	(W)	(W)	(W)	(W)	(W)
For machinery and equipment .....	3 404 164	563 316	559 833	1 355 070	925 944	(W)	1	1	(W)	1
For buildings .....	1 107 662	185 466	219 655	352 810	349 730	(W)	1	1	1	1
Selected purchased services .....	5 010 656	797 452	1 060 500	1 961 932	1 190 770	(W)	1	(W)	(W)	(W)
Communication services .....	1 328 614	253 295	273 053	469 747	332 517	(W)	1	1	(W)	1
Repairs to buildings and other structures .....	280 607	50 638	61 950	105 554	62 464	1	1	1	1	1
Repairs to machinery and equipment .....	3 401 434	493 518	725 496	1 386 630	795 788	(W)	1	(W)	(W)	(W)
Ownership of construction projects:										
Total construction receipts .....	312 178 494	55 228 955	62 634 115	117 999 247	76 316 175	(W)	(W)	(W)	(W)	(W)
Government owned .....	61 990 615	11 104 023	13 981 850	20 973 906	15 877 525	(W)	1	1	1	1
Federal .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
State and local .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Privately owned .....	250 187 879	44 124 931	48 652 264	97 025 342	60 438 649	(W)	(W)	(W)	(W)	(W)

<sup>1</sup>In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.

**Table 7. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll by Geographic Area: 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and States included in census geographic regions, see appendixes]

geographic regions; see appendixes.)

Item	United States	Establishments located in the—				Relative standard error of estimate (percent) for column—				
		Northeast	Midwest	South	West	A	B	C	D	E
A	B	C	D	E	A	B	C	D	E	
<b>BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT</b>										
Beginning-of-year gross book value of depreciable assets -----	57 760 610	10 853 771	13 199 816	21 580 564	12 126 458	(W)	1	1	1	1
Capital expenditures, other than land -----	8 393 671	1 967 479	1 847 872	2 962 788	1 615 530	(W)	1	1	1	1
New -----	6 552 560	1 638 059	1 405 336	2 308 100	1 201 063	1	1	1	1	1
Used -----	1 841 110	329 420	442 535	654 688	414 466	1	2	2	1	2
Retirements and disposition of depreciable assets -----	3 539 397	546 858	668 016	1 534 540	789 981	1	5	2	2	2
End-of-year gross book value of depreciable assets -----	62 614 884	12 274 392	14 379 671	23 008 812	12 952 007	(W)	1	1	1	1
Depreciation charges during year -----	7 478 177	1 563 510	1 600 441	2 790 178	1 524 046	(W)	1	1	1	1
<b>Buildings and Other Structures, Additions, and Related Facilities</b>										
Beginning-of-year gross book value of depreciable assets -----	12 386 056	2 462 783	2 660 686	4 512 789	2 749 797	1	3	3	1	2
Capital expenditures, other than land -----	1 329 515	269 220	258 192	506 526	295 576	1	2	3	3	3
New buildings and other structures -----	993 107	203 023	190 652	380 250	219 181	2	3	3	3	4
Used buildings and other structures -----	336 407	66 197	67 539	126 275	76 395	2	4	4	4	6
Retirements and disposition of depreciable assets -----	713 046	181 691	103 616	260 241	167 496	4	14	6	5	6
End-of-year gross book value of depreciable assets -----	13 002 525	2 550 312	2 815 261	4 759 074	2 877 877	1	2	2	1	2
Depreciation charges during year -----	1 104 227	220 209	215 645	435 307	233 065	1	2	4	1	2
<b>Machinery and Equipment</b>										
Beginning-of-year gross book value of depreciable assets -----	45 374 554	8 390 988	10 539 130	17 067 775	9 376 660	(W)	1	1	1	1
Capital expenditures, other than land -----	7 064 155	1 698 259	1 589 679	2 456 262	1 319 953	(W)	1	1	1	1
New machinery and equipment, including automobiles and trucks -----	5 559 453	1 435 036	1 214 683	1 927 850	981 882	1	1	1	1	1
New automobiles and trucks, intended primarily for highway use -----	2 573 143	728 920	536 940	852 126	455 155	1	1	1	1	1
Used machinery and equipment, including automobiles and trucks -----	1 504 702	263 222	374 996	528 412	338 071	1	2	2	2	2
Retirements and disposition of depreciable assets -----	2 826 351	365 167	564 399	1 274 299	622 484	1	3	2	3	2
End-of-year gross book value of depreciable assets -----	49 612 358	9 724 080	11 564 410	18 249 738	10 074 129	(W)	1	1	1	1
Depreciation charges during year -----	6 373 949	1 343 301	1 384 796	2 354 871	1 290 980	(W)	1	1	1	1



**Table 8. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll by Geographic Area: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and States included in census geographic regions, see appendixes]

Item	United States	Establishments located in the—				Relative standard error of estimate (percent) for column—				
		Northeast	Midwest	South	West	A	B	C	D	E
A	B	C	D	E						
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT										
Beginning-of-year gross book value of depreciable assets -----	54 149 088	8 592 784	12 629 691	20 661 729	12 264 882	(W)	1	(W)	(W)	(W)
Capital expenditures, other than land -----	5 222 516	828 136	1 070 943	2 151 785	1 171 651	(W)	1	1	(W)	1
New -----	3 869 890	621 264	780 107	1 635 879	832 638	(W)	1	1	(W)	1
Used -----	1 352 626	206 871	290 835	515 906	339 013	1	1	1	1	1
Retirements and disposition of depreciable assets -----	2 628 938	334 732	544 681	1 064 002	685 520	1	2	3	1	1
End-of-year gross book value of depreciable assets -----	56 742 666	9 086 188	13 155 952	21 749 512	12 751 012	(W)	(W)	(W)	(W)	(W)
Depreciation charges during year -----	6 818 039	1 093 456	1 501 377	2 680 269	1 542 936	(W)	1	1	(W)	1
Buildings and other Structures, Additions, and Related Facilities										
Beginning-of-year gross book value of depreciable assets -----	10 413 554	1 594 004	2 155 586	4 026 341	2 637 621	(W)	1	1	1	1
Capital expenditures, other than land -----	970 631	145 859	195 261	(D)	(D)	1	1	1	(D)	(D)
New buildings and other structures -----	806 623	114 514	161 130	(D)	(D)	1	2	1	(D)	(D)
Used buildings and other structures -----	164 008	31 345	34 131	(D)	(D)	2	1	1	(D)	(D)
Retirements and disposition of depreciable assets -----	630 983	58 083	92 207	(D)	(D)	2	9	6	(D)	(D)
End-of-year gross book value of depreciable assets -----	10 753 138	1 681 780	2 258 641	4 089 292	2 723 424	(W)	1	1	1	1
Depreciation charges during year -----	912 232	157 585	178 303	348 604	227 738	(W)	1	1	1	1
Machinery and Equipment										
Beginning-of-year gross book value of depreciable assets -----	43 735 670	6 998 897	10 474 104	16 635 408	9 627 260	(W)	(W)	(W)	(W)	(W)
Capital expenditures, other than land -----	4 251 884	682 276	875 681	(D)	(D)	(W)	1	1	(D)	(D)
New machinery and equipment, including automobiles and trucks -----	3 063 266	506 750	618 977	(D)	(D)	(W)	1	1	(D)	(D)
New automobiles and trucks, intended primarily for highway use -----	1 214 784	229 540	228 061	(D)	(D)	1	1	1	(D)	(D)
Used machinery and equipment, including automobiles and trucks -----	1 188 618	175 526	256 704	(D)	(D)	1	2	1	(D)	(D)
Retirements and disposition of depreciable assets -----	1 998 071	276 766	452 474	(D)	(D)	1	2	2	(D)	(D)
End-of-year gross book value of depreciable assets -----	45 989 484	7 404 408	10 897 311	17 660 176	10 027 588	(W)	1	(W)	(W)	(W)
Depreciation charges during year -----	5 905 807	935 870	1 323 074	2 331 664	1 315 197	(W)	1	1	(W)	1

**Table 9. Value of Inventories for Establishments With Payroll by Geographic Area: 1987 and 1986**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and States included in census geographic regions, see appendixes]

Item	United States	Establishments located in the—				Relative standard error of estimate (percent) for column—				
		Northeast	Midwest	South	West	A	B	C	D	E
		A	B	C	D					
All establishments:										
Number .....	544 233	128 394	119 513	181 495	114 829	(W)	(W)	(W)	(W)	(W)
Value of construction work .....	499 982 234	110 922 090	103 207 922	167 049 883	118 802 337	(W)	(W)	(W)	(W)	(W)
Establishments with inventories:										
Number .....	201 486	46 628	47 996	63 268	43 590	(W)	1	1	1	1
Value of construction work .....	241 418 018	51 315 058	54 261 230	77 313 264	58 528 466	(W)	1	1	1	1
Inventories <sup>1</sup> :										
End of 1987, materials and supplies .....	6 305 799	1 580 772	1 476 865	1 922 275	1 325 899	1	2	2	2	2
End of 1986, materials and supplies .....	5 811 193	1 352 730	1 417 681	1 790 378	1 250 417	1	2	2	2	2
Establishments with no inventories:										
Number .....	256 433	62 056	54 593	86 927	52 852	(W)	1	1	1	1
Value of construction work .....	178 113 714	39 573 075	35 014 001	62 660 594	40 866 044	(W)	1	1	1	1
Establishments not reporting:										
Number .....	86 303	19 709	16 924	31 299	18 386	1	2	2	1	2
Value of construction work .....	80 450 492	20 033 955	13 932 691	27 076 020	19 407 826	(W)	1	1	1	1

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 10. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1987</b>										
Number of establishments .....	544 233	314 518	116 144	63 508	35 714	9 348	3 949	772	202	77
All employees** .....	5 054 367	629 479	744 082	839 840	1 054 982	631 208	577 609	257 898	134 406	184 863
Payroll, all employees .....	111 067 318	9 272 195	12 834 193	16 974 036	24 680 048	16 160 196	15 596 824	7 057 629	3 431 540	5 060 657
Construction worker hours (thousands) .....	6 743 563	748 949	903 041	1 075 120	1 439 454	916 805	850 467	376 802	190 545	242 381
Dollar value of business done .....	522 465 362	61 493 013	60 958 377	75 580 550	108 278 640	73 096 951	73 528 332	34 199 974	17 237 968	18 091 558
Value of construction work <sup>1</sup> .....	499 982 234	58 343 830	58 261 629	72 671 725	104 319 390	70 586 298	70 381 879	32 651 482	16 470 764	16 295 238
Net value of construction work† .....	367 745 733	44 693 143	45 933 093	56 727 844	78 194 018	50 710 344	48 057 899	21 578 564	10 924 254	10 926 575
Value added†† .....	230 174 083	25 388 412	27 733 242	34 970 078	48 987 655	31 821 146	31 146 583	14 524 057	7 124 694	8 478 217
Cost of materials, components, supplies, and fuels .....	150 545 463	20 309 384	19 336 002	23 321 779	31 500 181	20 374 971	19 050 519	8 251 708	8 400 922	(D)
Cost of construction work subcontracted to others .....	132 236 501	13 650 687	12 328 535	15 943 881	26 125 373	19 875 954	22 323 981	11 072 918	5 546 510	5 368 663
Rental cost for machinery, equipment, and buildings .....	7 752 741	610 216	846 140	1 121 356	1 689 831	1 241 113	1 213 404	548 226	243 006	239 450
Capital expenditures, other than land .....	8 393 671	1 086 095	1 179 556	1 369 289	1 838 354	1 071 398	1 023 829	484 380	231 588	109 182
End-of-year gross book value of depreciable assets .....	62 614 884	8 373 529	8 456 039	9 791 791	13 268 361	8 341 733	7 869 934	3 737 082	1 516 745	1 259 672
<b>1982</b>										
All employees** .....	4 275 070	566 895	559 039	641 525	810 300	482 731	462 999	232 220	157 945	361 415
Total construction receipts <sup>1</sup> .....	312 178 494	29 727 617	30 590 120	40 258 518	61 070 900	42 717 237	42 104 088	22 578 633	16 294 739	26 836 641
Value added†† .....	145 965 137	13 996 728	14 937 173	19 412 520	28 106 006	19 509 658	18 482 858	9 940 551	6 957 507	14 622 133
<b>1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	(W)	(W)	1	1	(W)	(W)	(W)	(W)	(W)	(W)
Net value of construction work† .....	(W)	1	1	1	(W)	(W)	(W)	(W)	(W)	(W)
Capital expenditures, other than land .....	(W)	1	1	1	(W)	(W)	(W)	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.



**Table 11. Selected Statistics by Size Class of the Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1987</b>											
Number of establishments -----	544 233	(S)	(S)	(S)	146 164	92 359	65 772	52 920	20 353	9 496	7 005
All employees** -----	5 054 367	(S)	(S)	(S)	479 445	534 536	619 924	874 398	641 010	529 285	1 133 155
Payroll, all employees -----	111 067 318	(S)	(S)	(S)	6 242 578	8 519 131	11 655 189	19 106 166	15 861 202	14 156 510	33 352 429
Construction worker hours (thousands) ---	6 743 563	(S)	(S)	(S)	584 337	673 544	797 496	1 160 563	893 933	761 571	1 612 919
Dollar value of business done -----	522 465 362	(S)	(S)	(S)	23 645 990	32 485 396	46 047 972	81 785 070	70 204 161	65 082 781	195 330 090
Value of construction work <sup>1</sup> -----	499 982 234	(S)	(S)	(S)	23 143 767	31 606 037	44 581 519	78 438 044	67 431 048	62 527 011	184 513 426
Net value of construction work† -----	367 745 733	(S)	(S)	(S)	21 047 393	27 768 758	37 697 353	63 319 079	52 082 753	45 947 258	112 676 061
Value added†† -----	230 174 083	(S)	(S)	(S)	12 897 350	16 860 527	22 802 935	38 740 742	32 233 827	28 424 303	73 670 731
Cost of materials, components, supplies, and fuels -----	150 545 463	(S)	(S)	(S)	8 498 077	11 499 861	15 791 330	26 345 600	21 293 207	18 861 248	45 495 813
Cost of construction work subcontracted to others -----	132 236 501	(S)	(S)	(S)	2 096 374	3 837 279	6 884 166	15 118 965	15 348 296	16 579 753	71 837 365
Rental cost for machinery, equipment, and buildings -----	7 752 741	(S)	(S)	(S)	322 229	510 827	745 353	1 227 300	1 080 404	1 072 676	2 707 398
Capital expenditures, other than land ----	8 393 671	(S)	(S)	(S)	591 520	784 077	954 647	1 531 008	1 166 076	968 497	2 223 778
End-of-year gross book value of depreciable assets -----	62 614 884	(S)	(S)	(S)	4 309 303	5 615 404	6 833 273	10 967 010	8 907 655	7 255 148	17 235 072
<b>1982</b>											
All employees** -----	4 275 070	71 206	86 261	187 553	453 311	439 204	489 250	635 884	449 481	384 138	1 078 780
Total construction receipts <sup>1</sup> -----	312 178 494	697 655	1 797 835	5 686 551	17 870 387	21 330 763	27 882 464	43 725 112	36 203 324	35 541 475	121 442 926
Value added†† -----	145 965 137	373 042	981 732	3 095 160	9 437 056	11 009 687	14 096 296	21 664 561	17 504 567	16 211 322	51 591 710
<b>1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** -----	(W)	(S)	(S)	(S)	1	1	1	(W)	(W)	(W)	(W)
Net value of construction work† -----	(W)	(S)	(S)	(S)	1	1	1	1	(W)	(W)	(W)
Capital expenditures, other than land ----	(W)	(S)	(S)	(S)	1	1	1	1	1	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.



**Table 12. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and type of construction	1987 value of construction work				1982 total construction receipts <sup>1</sup>	Relative standard error of estimate (percent) for column—				
	Total	New construction <sup>1</sup>	Additions, alterations, or reconstruction	Maintenance and repair		A	B	C	D	E
A	B	C	D	E	A	B	C	D	E	
UNITED STATES										
Value of construction work <sup>1</sup> .....	499 962 234	329 109 761	96 991 539	50 477 624	312 176 494	(W)	(W)	(W)	(W)	(W)
Building construction .....	373 487 296	261 506 313	75 457 036	33 967 314	209 003 904	(W)	(W)	(W)	(W)	(W)
Single-family houses .....	124 339 120	97 498 629	17 285 359	9 555 138	53 033 820	(W)	(W)	1	1	(W)
Single-family houses, detached .....	103 052 272	79 050 227	15 685 106	8 318 945	43 756 104	(W)	(W)	1	1	(W)
Single-family houses, attached .....	21 286 848	18 448 402	1 600 253	1 238 194	9 277 716	1	1	2	2	1
Apartment buildings with two or more apartments .....	22 262 613	16 993 539	3 023 116	2 245 959	14 172 862	(W)	1	1	1	(W)
Other residential buildings, including hotels and motels .....	14 475 450	10 580 073	2 615 263	1 280 114	6 102 737	(W)	1	1	1	(W)
Hotels and motels .....	9 022 481	7 151 242	1 269 159	602 081	(NA)	(W)	(W)	1	1	(NA)
Other residential buildings, excluding hotels and motels .....	5 452 969	3 428 831	1 346 105	678 034	(NA)	1	1	2	3	(NA)
Office buildings .....	60 723 297	41 160 155	14 852 264	4 710 881	44 501 771	(W)	(W)	(W)	1	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations .....	46 370 994	30 626 326	10 947 621	4 797 052	16 902 859	(W)	(W)	1	1	(W)
Industrial buildings and warehouses .....	52 584 685	33 698 335	11 813 471	7 072 884	42 289 621	(W)	(W)	(W)	(W)	(W)
Industrial buildings .....	41 528 462	25 256 710	10 025 499	6 246 256	35 447 782	(W)	(W)	(W)	1	(W)
Warehouses .....	11 056 223	8 441 625	1 787 972	826 627	6 841 838	(W)	1	1	1	(W)
Religious buildings .....	4 535 939	2 655 877	1 294 075	585 989	2 562 379	1	1	1	2	1
Educational buildings .....	16 282 387	9 695 433	5 208 646	1 378 309	9 431 419	(W)	(W)	1	1	(W)
Hospitals and institutional buildings .....	19 305 021	11 930 091	6 104 033	1 270 898	13 934 073	(W)	(W)	1	1	(W)
Farm buildings .....	1 560 486	1 054 179	264 379	241 927	1 624 482	2	3	5	3	2
Amusement, social, and recreational buildings .....	3 046 690	2 192 066	605 091	249 533	2 263 971	1	1	2	3	1
Other nonresidential buildings .....	5 443 959	3 421 611	1 443 719	578 629	2 183 906	1	1	2	3	1
Land development for buildings .....	2 556 657	(NA)	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction .....	105 648 260	87 603 449	21 534 504	16 510 311	82 366 302	(W)	(W)	(W)	(W)	(W)
Highways, streets, and related facilities .....	33 692 504	18 852 941	9 371 283	5 468 281	20 518 447	(W)	(W)	(W)	1	(W)
Outdoor swimming pools .....	2 273 407	1 849 331	207 887	216 190	515 797	2	2	7	5	3
Airport runways .....	209 736	94 055	84 020	31 661	108 774	4	7	4	3	3
Parking areas including private driveways .....	3 562 807	2 311 898	594 541	656 369	439 532	2	1	2	3	2
Fencing .....	1 102 982	868 794	112 648	121 520	325 932	3	3	4	5	4
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts .....	1 114 321	862 625	139 592	112 103	(NA)	3	3	6	7	(NA)
Bridges, tunnels, and elevated highways .....	7 051 964	4 975 614	1 461 265	615 086	4 342 924	(W)	(W)	1	3	(W)
Tunnels .....	853 957	684 524	130 841	38 592	801 871	1	1	2	3	1
Bridges and elevated highways .....	6 198 007	4 291 090	1 330 424	576 494	3 541 053	(W)	(W)	1	3	(W)
Dam and reservoir construction .....	990 275	842 537	84 389	63 350	832 770	1	1	3	7	1
Marine construction .....	1 595 977	966 495	262 481	367 002	1 741 680	1	1	2	2	1
Harbor and port facilities .....	619 269	393 107	135 860	90 302	655 171	3	4	5	2	1
Conservation and development construction .....	1 520 673	1 128 898	219 487	172 289	1 104 661	2	2	5	5	2
Power and communication transmission lines, towers, and related facilities .....	6 232 816	3 902 885	1 319 075	1 010 856	4 597 687	1	1	1	2	(W)
Sewers, water mains, and related facilities .....	13 506 798	10 661 388	1 660 417	1 184 993	8 493 509	1	1	1	1	1
Sewers, sewer lines, and related facilities .....	7 937 085	6 270 734	996 713	669 638	5 176 792	1	1	1	1	1
Water mains and related facilities .....	5 569 713	4 390 654	663 704	515 355	3 316 716	1	1	2	2	1
Pipeline, other than sewer or water lines .....	3 259 867	2 275 977	512 054	471 836	3 161 401	1	1	1	2	(W)
Mass transit construction .....	1 416 178	672 678	480 815	262 686	1 923 398	1	1	1	3	(W)
Subways .....	730 144	354 922	334 980	40 242	1 159 314	(W)	1	(W)	4	(W)
Railroads .....	686 034	317 755	145 835	222 444	764 084	2	2	3	4	1
Heavy industrial facilities .....	13 691 726	7 300 089	2 469 972	3 921 664	(NA)	(W)	(W)	(W)	(W)	(NA)
Blast furnaces, petroleum refineries, and chemical complexes .....	6 776 004	3 212 513	1 418 062	2 145 429	10 521 935	(W)	(W)	(W)	1	(W)
Power plants .....	6 915 723	4 087 576	1 051 911	1 776 235	14 385 752	(W)	(W)	1	(W)	(W)
Power plants, nuclear .....	2 302 509	1 282 830	290 461	729 218	7 140 373	(W)	(W)	(W)	(W)	(W)
Power plants, except nuclear .....	4 613 213	2 804 747	761 449	1 047 017	7 245 378	(W)	(W)	1	1	(W)
Sewage treatment and water treatment plants .....	6 057 721	4 446 103	1 299 771	311 847	4 257 679	1	1	1	2	(W)
Sewage treatment plants .....	4 099 467	3 048 277	891 167	160 022	2 927 777	1	1	2	3	(W)
Water treatment plants .....	1 958 254	1 397 826	408 604	151 825	1 329 902	1	1	2	4	1
Water storage facilities .....	236 236	162 020	15 046	59 169	(NA)	3	3	7	5	(NA)
Heavy military construction .....	572 944	390 675	104 832	77 436	(NA)	1	(W)	3	4	(NA)
Ships .....	167 356	53 859	13 618	99 878	(NA)	3	4	2	4	(NA)
Oilfields .....	506 820	300 459	65 084	141 277	1 472 532	3	3	4	4	1
Earthmoving, nonbuilding .....	2 677 903	2 197 520	249 974	230 410	(NA)	2	1	4	4	(NA)
Other nonbuilding construction .....	3 587 997	2 093 501	670 388	824 107	2 966 721	1	2	3	3	1
Construction work, n.s.k. ....	20 846 878	(NA)	(NA)	(NA)	20 608 287	1	(NA)	(NA)	(NA)	(W)
NORTHEAST										
Value of construction work <sup>1</sup> .....	110 922 090	85 489 070	27 823 579	11 947 303	55 228 956	(W)	(W)	(W)	1	(W)
Building construction .....	85 133 733	53 647 349	22 342 525	8 878 454	38 537 595	(W)	(W)	(W)	1	(W)
Single-family houses .....	27 161 748	19 910 024	5 017 717	2 234 007	7 871 078	1	1	1	1	1
Single-family houses, detached .....	20 881 384	14 451 126	4 512 181	1 918 078	8 583 061	1	1	2	2	1
Single-family houses, attached .....	6 280 364	5 458 898	505 536	315 929	1 288 017	1	1	4	3	2
Apartment buildings with two or more apartments .....	5 682 378	3 593 153	1 367 457	721 767	3 190 319	1	1	2	2	1
Other residential buildings, including hotels and motels .....	3 677 223	2 508 853	826 027	342 342	958 147	1	1	2	3	1
Hotels and motels .....	1 891 048	1 455 601	309 773	125 672	(NA)	1	1	3	3	(NA)
Other residential buildings, excluding hotels and motels .....	1 786 176	1 053 252	516 253	216 670	(NA)	2	3	4	4	(NA)
Office buildings .....	17 441 863	10 343 598	5 613 199	1 485 066	9 666 302	(W)	(W)	1	1	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations .....	9 623 494	5 549 585	2 807 106	1 268 804	2 904 489	1	1	1	1	1
Industrial buildings and warehouses .....	10 609 378	6 340 798	2 707 388	1 561 192	7 626 748	1	1	1	1	(W)
Industrial buildings .....	8 454 125	4 777 751	2 285 386	1 390 987	6 667 949	1	1	1	1	(W)
Warehouses .....	2 155 253	1 563 046	422 002	170 204	958 798	1	1	2	2	1
Religious buildings .....	803 078	362 358	282 330	158 390	411 603	2	3	3	3	2
Educational buildings .....	3 479 634	1 722 745	1 393 472	363 416	1 871 265	1	1	1	2	1
Hospitals and institutional buildings .....	4 299 620	2 321 688	1 643 068	334 863	3 081 472	1	1	1	2	(W)
Farm buildings .....	231 788	133 147	65 813	32 827	192 223	4	7	10	8	3
Amusement, social, and recreational buildings .....	473 527	272 825	151 726	48 975	354 541	2	3	4	4	3
Other nonresidential buildings .....	1 182 587	588 568	467 217	126 801	429 408	2	2	4	8	2
Land development for buildings .....	467 410	(NA)	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.



**Table 12. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1987 and 1982—Con.**

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Geographic area and type of construction	1987 value of construction work				1982 total construction receipts <sup>1</sup>	Relative standard error of estimate (percent) for column—				
	Total	New construction <sup>1</sup>	Additions, alterations, or reconstruction	Maintenance and repair		A	B	C	D	E
	A	B	C	D						
<b>NORTHEAST—Con.</b>										
<b>Value of construction work<sup>1</sup>—Con.</b>	<b>20 573 624</b>	<b>11 821 721</b>	<b>5 481 054</b>	<b>3 270 849</b>	<b>12 906 130</b>	(W)	(W)	(W)	1	(W)
<b>Nonbuilding construction</b>	<b>5 620 886</b>	<b>2 692 026</b>	<b>1 923 347</b>	<b>1 005 512</b>	<b>3 359 825</b>	1	1	1	1	1
Highways, streets, and related facilities	525 526	431 113	41 571	52 841	72 000	5	5	13	8	10
Outdoor swimming pools	44 628	(D)	(D)	1 265	19 141	2	(D)	(D)	14	2
Airport runways	749 299	503 143	118 853	127 303	62 232	4	3	5	6	7
Parking areas including private driveways	183 878	143 815	19 647	20 415	54 663	8	7	10	11	10
Fencing										
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	179 741	(D)	(D)	21 762	(NA)	6	(D)	(D)	11	(NA)
Bridges, tunnels, and elevated highways	1 721 842	923 458	550 229	248 154	846 790	1	1	1	4	(W)
Tunnels	268 408	202 548	53 332	12 527	241 890	2	2	4	4	(W)
Bridges and elevated highways	1 453 433	720 909	496 896	235 627	604 900	1	1	1	4	1
Dam and reservoir construction	72 122	45 253	17 060	9 808	49 988	3	2	8	2	1
Marine construction	235 488	135 206	39 989	60 292	159 949	3	2	7	5	2
Harbor and port facilities	128 138	63 349	53 931	10 857	104 534	8	13	10	7	3
Conservation and development construction	158 785	109 602	26 555	22 627	104 778	5	6	5	4	4
Power and communication transmission lines, towers, and related facilities	1 262 487	710 487	359 575	192 424	731 403	1	1	1	3	1
Sewers, water mains, and related facilities	2 747 842	2 027 057	443 980	276 804	1 502 471	1	1	2	3	1
Sewers, sewer lines, and related facilities	1 685 735	1 271 908	252 179	161 647	1 056 594	1	2	3	3	1
Water mains and related facilities	1 062 107	755 148	191 801	115 157	445 877	2	2	3	4	2
Pipeline, other than sewer or water lines	516 323	329 358	86 534	100 430	362 125	2	2	3	5	1
Mass transit construction	703 761	237 539	393 492	72 730	601 418	1	1	(W)	8	(W)
Subways	505 767	163 108	312 506	30 151	414 890	(W)	1	(W)	1	(W)
Railroads	197 994	74 430	80 986	42 578	186 528	4	4	2	13	1
Heavy industrial facilities	3 104 921	1 571 112	828 100	705 707	(NA)	(W)	1	(W)	1	(NA)
Blast furnaces, petroleum refineries, and chemical complexes	833 978	253 268	391 129	189 581	769 389	1	3	1	5	(W)
Power plants	2 270 942	1 317 844	436 971	516 126	2 951 382	(W)	(W)	1	1	(W)
Power plants, nuclear	715 855	430 176	174 896	110 782	1 700 715	(W)	(W)	(W)	1	(W)
Power plants, except nuclear	1 555 087	887 668	262 075	405 344	1 250 667	(W)	(W)	1	1	(W)
Sewage treatment and water treatment plants	1 306 081	949 342	265 507	91 232	769 471	1	1	2	5	1
Sewage treatment plants	854 387	659 242	160 743	34 400	618 928	1	1	3	7	1
Water treatment plants	451 694	290 099	104 763	56 831	150 542	2	1	4	5	2
Water storage facilities	19 177	*8 797	*1 765	8 614	(NA)	29	51	57	20	(NA)
Heavy military construction	2 408	-	2 408	-	(NA)	39	-	39	-	(NA)
Ships	9 431	2 756	3 395	3 279	(NA)	5	1	1	14	(NA)
Oilfields	283	49	183	49	7 164	(W)	(W)	(W)	(W)	24
Earthmoving, nonbuilding	498 388	407 442	48 605	42 340	(NA)	4	4	9	7	(NA)
Other nonbuilding construction	782 176	412 436	173 347	196 392	377 407	3	3	4	5	2
<b>Construction work, n.s.k.</b>	<b>5 214 733</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>3 785 231</b>	<b>1</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>	<b>1</b>
<b>MIDWEST</b>										
<b>Value of construction work<sup>1</sup></b>	<b>103 207 922</b>	<b>84 256 086</b>	<b>22 584 985</b>	<b>12 328 043</b>	<b>82 834 115</b>	<b>(W)</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>	<b>(W)</b>
<b>Building construction</b>	<b>78 765 549</b>	<b>50 780 732</b>	<b>17 036 909</b>	<b>8 657 135</b>	<b>42 660 703</b>	<b>(W)</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>	<b>(W)</b>
Single-family houses	22 317 740	16 153 891	3 742 949	2 420 901	8 877 273	1	1	1	2	1
Single-family houses, detached	19 160 647	13 536 491	3 456 185	2 167 971	7 696 303	1	1	2	1	1
Single-family houses, attached	3 157 092	2 617 399	286 763	252 929	1 180 970	2	2	5	4	2
Apartment buildings with two or more apartments	3 968 852	2 997 660	537 424	433 767	2 473 419	1	1	3	2	1
Other residential buildings, including hotels and motels	2 385 434	1 693 602	436 443	255 388	902 597	1	1	3	4	1
Hotels and motels	1 504 966	1 167 936	215 596	121 433	(NA)	1	1	3	5	(NA)
Other residential buildings, excluding hotels and motels	880 467	525 666	220 846	133 955	(NA)	3	3	5	6	(NA)
Office buildings	11 069 843	7 513 408	2 505 324	1 051 111	7 325 801	(W)	(W)	1	1	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations	10 526 752	6 708 686	2 635 008	1 183 059	3 743 430	1	1	1	1	1
Industrial buildings and warehouses	14 845 192	9 111 548	3 682 912	2 050 732	11 108 704	(W)	(W)	1	1	(W)
Industrial buildings	12 291 614	7 253 433	3 231 947	1 806 234	9 420 700	(W)	1	1	1	(W)
Warehouses	2 553 577	1 858 114	450 964	244 498	1 688 003	1	1	2	2	1
Religious buildings	1 141 301	601 998	357 221	182 082	679 092	1	2	2	2	1
Educational buildings	3 343 680	1 735 964	1 201 028	406 688	2 042 588	1	1	1	2	1
Hospitals and institutional buildings	4 427 870	2 593 434	1 484 227	350 008	3 690 717	1	1	1	1	(W)
Farm buildings	721 458	478 750	105 386	137 321	935 676	4	5	7	5	2
Amusement, social, and recreational buildings	793 803	578 525	134 683	80 594	519 806	1	1	3	7	1
Other nonresidential buildings	933 041	613 260	214 300	105 479	361 601	2	2	5	7	2
Land development for buildings	290 776	(NA)	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)	(NA)
<b>Nonbuilding construction</b>	<b>22 874 337</b>	<b>13 475 354</b>	<b>5 528 078</b>	<b>3 870 908</b>	<b>18 241 377</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>	<b>1</b>	<b>(W)</b>
Highways, streets, and related facilities	8 300 148	4 093 842	2 544 950	1 661 355	4 854 730	1	1	1	1	1
Outdoor swimming pools	226 085	180 520	18 535	27 028	45 775	8	8	17	17	12
Airport runways	53 843	26 855	19 898	7 089	13 220	5	4	10	6	8
Parking areas including private driveways	947 444	572 610	179 512	195 322	132 697	3	3	4	5	5
Fencing	177 146	133 813	22 125	21 407	57 748	8	7	6	13	11
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	274 270	229 569	27 814	16 886	(NA)	5	4	16	26	(NA)
Bridges, tunnels, and elevated highways	1 810 850	1 265 020	370 743	175 085	1 168 851	1	1	1	4	2
Tunnels	152 955	125 164	11 261	16 529	176 970	3	3	9	4	2
Bridges and elevated highways	1 657 894	1 139 856	359 482	158 556	991 881	1	1	1	4	1
Dam and reservoir construction	127 933	92 681	18 371	16 879	233 704	2	1	8	10	1
Marine construction	345 723	122 144	133 846	89 732	238 082	1	1	2	1	1
Harbor and port facilities	49 717	35 227	7 435	7 053	63 459	14	20	7	2	5
Conservation and development construction	278 920	203 720	33 963	41 235	262 803	5	5	13	13	3
Power and communication transmission lines, towers, and related facilities	945 143	576 406	226 944	141 792	828 248	2	2	4	3	1
Sewers, water mains, and related facilities	3 094 219	2 385 212	441 200	267 806	1 869 230	1	1	2	3	1
Sewers, sewer lines, and related facilities	2 031 194	1 570 320	301 184	159 690	1 205 371	1	1	2	3	1
Water mains and related facilities	1 063 024	814 892	140 016	108 115	663 858	2	2	3	5	2
Pipeline, other than sewer or water lines	525 074	357 266	100 272	67 935	465 761	2	2	3	3	1
Mass transit construction	211 671	80 793	39 156	91 722	290 687	3	4	6	3	1
Subways	44 909	31 073	(D)	(D)	46 849	6	9	(D)	(D)	1
Railroads	166 762	49 720	(D)	(D)	243 838	3	3	(D)	(D)	1
Heavy industrial facilities	2 260 962	1 045 359	695 022	520 581	(NA)	1	1	1	1	(NA)

See footnotes at end of table.



**Table 12. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1987 and 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and type of construction	1987 value of construction work				1982 total construction receipts <sup>1</sup>	Relative standard error of estimate (percent) for column—				
	Total	New construction <sup>1</sup>	Additions, alterations, or reconstruction	Maintenance and repair		A	B	C	D	E
	A	B	C	D						
<b>MIDWEST—Con.</b>										
Value of construction work <sup>1</sup> —Con.										
Nonbuilding construction—Con.										
Heavy industrial facilities—Con.										
Blast furnaces, petroleum refineries, and chemical complexes ..	911 290	368 945	263 867	278 478	1 111 280	1	1	1	3	(W)
Power plants ..	1 349 672	676 413	431 155	242 103	2 925 385	1	1	1	1	(W)
Power plants, nuclear ..	(D)	(D)	(D)	(D)	1 141 118	(D)	(D)	(D)	(D)	(W)
Power plants, except nuclear ..	(D)	(D)	(D)	(D)	1 784 267	(D)	(D)	(D)	(D)	(W)
Sewage treatment and water treatment plants ..	1 733 865	1 230 566	437 332	65 966	1 199 454	1	1	2	5	1
Sewage treatment plants ..	1 358 215	969 652	342 814	45 748	833 556	1	1	3	7	1
Water treatment plants ..	375 650	260 914	94 518	20 218	365 898	3	2	5	3	1
Water storage facilities ..	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Heavy military construction ..	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Ships ..	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Oilfields ..	(D)	(D)	(D)	(D)	70 741	(D)	(D)	(D)	19	10
Earthmoving, nonbuilding ..	423 029	357 542	40 154	25 333	(NA)	4	4	11	10	(NA)
Other nonbuilding construction ..	763 038	412 235	157 975	192 827	409 522	3	2	5	7	2
Construction work, n.s.k. ....	3 768 036	(NA)	(NA)	(NA)	3 732 036	1	(NA)	(NA)	(NA)	1
<b>SOUTH</b>										
Value of construction work <sup>1</sup> ..	167 049 883	115 242 994	26 862 862	16 613 060	117 999 249	(W)	(W)	(W)	(W)	(W)
Building construction ..	121 302 992	89 533 754	20 444 840	10 251 129	77 890 695	(W)	(W)	(W)	1	(W)
Single-family houses ..	41 455 253	33 830 129	4 685 996	2 939 129	21 601 145	1	1	1	2	(W)
Single-family houses, detached ..	35 009 397	28 140 346	4 304 899	2 564 152	17 839 566	1	1	1	1	1
Single-family houses, attached ..	6 445 856	5 689 782	381 096	374 977	3 761 579	1	1	4	3	(W)
Apartment buildings with two or more apartments ..	7 179 198	5 859 474	728 427	591 297	5 974 648	1	1	3	2	1
Other residential buildings, including hotels and motels ..	4 198 734	3 161 643	646 983	390 107	2 533 721	1	1	3	2	1
Hotels and motels ..	2 712 459	2 198 023	324 540	189 896	(NA)	1	1	3	2	(NA)
Other residential buildings, excluding hotels and motels ..	1 486 275	963 620	322 443	200 211	(NA)	2	2	3	4	(NA)
Office buildings ..	18 489 285	13 538 666	3 618 203	1 332 416	16 134 858	(W)	(W)	1	1	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations ..	15 242 464	10 859 443	3 026 925	1 356 096	5 990 167	1	1	1	2	1
Industrial buildings and warehouses ..	16 149 965	10 537 024	3 209 410	2 403 530	14 634 486	(W)	1	1	1	(W)
Industrial buildings ..	12 535 608	7 708 614	2 679 882	2 147 112	11 944 260	(W)	1	1	1	(W)
Warehouses ..	3 614 356	2 828 410	529 528	256 418	2 690 226	1	1	2	3	1
Religious buildings ..	1 790 428	1 190 521	432 283	167 623	1 026 863	1	1	2	4	1
Educational buildings ..	5 941 950	3 988 195	1 589 027	364 727	3 396 671	1	1	2	3	1
Hospitals and institutional buildings ..	6 282 742	4 082 061	1 826 612	374 067	4 634 229	1	1	1	1	(W)
Farm buildings ..	406 988	296 709	63 894	46 384	282 099	4	5	16	7	4
Amusement, social, and recreational buildings ..	1 231 893	952 976	213 316	65 600	872 348	1	1	2	3	1
Other nonresidential buildings ..	1 860 813	1 236 907	403 759	220 146	809 460	2	2	4	5	1
Land development for buildings ..	1 073 274	(NA)	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction ..	38 489 193	25 709 240	6 418 022	6 361 931	31 754 902	(W)	(W)	(W)	(W)	(W)
Highways, streets, and related facilities ..	12 500 354	7 872 162	2 841 204	1 786 988	7 632 441	1	1	1	1	(W)
Outdoor swimming pools ..	875 726	722 046	70 299	83 380	283 923	4	4	11	7	5
Airport runways ..	75 768	43 318	10 411	22 038	47 819	7	10	24	3	4
Parking areas including private driveways ..	1 031 253	684 627	176 666	169 960	118 035	3	3	4	5	5
Fencing ..	325 237	257 377	62 611	35 248	108 664	7	8	9	9	8
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts ..	368 456	295 240	36 119	37 096	(NA)	5	5	9	12	(NA)
Bridges, tunnels, and elevated highways ..	2 230 514	1 721 811	384 107	124 594	1 548 666	1	1	2	8	1
Tunnels ..	221 181	160 991	54 248	5 941	256 752	2	3	2	5	1
Bridges and elevated highways ..	2 009 333	1 560 820	329 859	118 652	1 291 914	1	1	2	8	1
Dam and reservoir construction ..	296 379	267 310	15 070	13 999	266 477	3	4	2	6	2
Marine construction ..	712 314	497 874	63 479	150 960	1 071 248	2	2	3	3	1
Harbor and port facilities ..	250 713	161 255	48 892	40 564	307 842	3	3	2	2	2
Conservation and development construction ..	523 869	376 732	80 906	66 230	395 244	3	4	10	7	3
Power and communication transmission lines, towers, and related facilities ..	2 643 907	1 635 434	543 080	465 392	1 782 367	1	1	1	2	1
Sewers, water mains, and related facilities ..	4 611 283	3 770 833	420 567	419 882	3 016 666	1	1	2	2	1
Sewers, sewer lines, and related facilities ..	2 631 393	2 143 710	253 141	234 541	1 787 953	1	1	2	3	1
Water mains and related facilities ..	1 979 889	1 627 122	167 425	185 341	1 228 714	1	2	4	3	1
Pipeline, other than sewer or water lines ..	1 359 463	934 157	217 821	207 484	1 665 309	1	1	3	2	1
Mass transit construction ..	307 163	204 130	31 780	71 251	380 210	3	2	5	6	2
Subways ..	108 964	99 886	4 547	4 530	117 630	1	1	1	1	1
Railroads ..	198 198	104 244	27 233	66 721	262 579	4	3	6	7	2
Heavy industrial facilities ..	5 662 086	2 958 462	680 532	2 023 091	(NA)	(W)	(W)	1	(W)	(NA)
Blast furnaces, petroleum refineries, and chemical complexes ..	3 872 944	1 921 867	550 357	1 400 719	5 905 650	(W)	(W)	1	1	(W)
Power plants ..	1 789 141	1 036 594	130 174	622 372	3 774 583	(W)	(W)	2	(W)	(W)
Power plants, nuclear ..	535 533	254 877	19 093	261 563	1 062 454	(W)	(W)	4	1	(W)
Power plants, except nuclear ..	1 253 607	781 717	111 080	360 809	2 712 129	(W)	(W)	2	1	(W)
Sewage treatment and water treatment plants ..	1 925 032	1 400 063	420 580	104 389	1 422 292	1	1	2	4	1
Sewage treatment plants ..	1 244 991	911 851	278 101	55 038	911 830	1	1	3	5	1
Water treatment plants ..	680 041	488 211	142 478	49 351	510 462	1	2	4	6	2
Water storage facilities ..	141 987	112 183	12 131	17 671	(NA)	2	2	3	15	(NA)
Heavy military construction ..	39 798	16 577	16 086	7 134	(NA)	2	(W)	5	(W)	(NA)
Ships ..	97 924	40 629	3 654	53 641	(NA)	3	3	4	4	(NA)
Oilfields ..	279 467	143 622	38 189	97 655	903 130	4	5	6	6	1
Earthmoving, nonbuilding ..	1 064 665	855 744	98 831	110 089	(NA)	2	3	8	9	(NA)
Other nonbuilding construction ..	1 165 825	737 644	174 995	253 185	1 124 366	2	3	6	4	2
Construction work, n.s.k. ....	7 257 698	(NA)	(NA)	(NA)	8 353 651	1	(NA)	(NA)	(NA)	1

See footnotes at end of table.



**Table 12. Value of Construction Work for Establishments With Payroll by Geographic Area and Type of Construction: 1987 and 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and type of construction	1987 value of construction work				1982 total construction receipts <sup>1</sup>	Relative standard error of estimate (percent) for column—				
	Total	New construction <sup>1</sup>	Additions, alterations, or reconstruction	Maintenance and repair		A	B	C	D	E
	A	B	C	D						
<b>WEST</b>										
Value of construction work <sup>1</sup> -----	118 802 337	84 141 608	19 740 110	9 589 215	76 316 175	(W)	(W)	1	1	(W)
<b>Building construction</b> -----	90 285 021	67 544 476	15 632 760	6 382 594	49 914 912	(W)	(W)	1	1	(W)
Single-family houses-----	33 404 376	27 604 583	3 838 695	1 961 099	14 684 325	1	1	1	2	1
Single-family houses, detached-----	28 000 842	22 922 262	3 411 839	1 666 742	11 637 174	1	1	2	2	1
Single-family houses, attached-----	5 403 534	4 682 321	426 856	294 357	3 761 579	1	1	4	3	1
Apartment buildings with two or more apartments-----	5 432 183	4 543 250	389 805	499 127	2 534 476	1	1	3	2	1
Other residential buildings, including hotels and motels-----	4 214 056	3 215 972	705 809	292 274	1 708 272	1	1	2	2	1
Hotels and motels-----	2 914 007	2 329 680	419 248	165 078	(NA)	1	1	2	2	(NA)
Other residential buildings, excluding hotels and motels-----	1 300 049	886 291	286 561	127 195	(NA)	2	2	5	4	(NA)
Office buildings-----	13 722 303	9 764 481	3 115 536	842 286	11 374 810	(W)	(W)	1	1	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations-----	10 978 281	7 508 610	2 478 580	991 090	4 264 774	1	1	1	2	1
Industrial buildings and warehouses-----	10 980 149	7 708 962	2 213 759	1 057 427	8 919 685	(W)	1	1	1	(W)
Industrial buildings-----	8 247 114	5 516 910	1 828 283	901 921	7 414 873	1	1	1	1	(W)
Warehouses-----	2 734 034	2 192 052	385 475	155 506	1 504 812	1	1	2	3	1
Religious buildings-----	801 130	500 998	222 239	77 892	444 821	2	3	4	3	2
Educational buildings-----	3 517 121	2 248 526	1 025 117	243 477	2 120 896	1	1	2	3	1
Hospitals and institutional buildings-----	4 294 988	2 932 905	1 150 124	211 958	2 547 654	1	1	2	3	1
Farm buildings-----	200 249	145 570	29 284	25 394	214 485	7	7	11	6	5
Amusement, social, and recreational buildings-----	547 466	387 738	105 364	54 363	517 277	2	2	4	3	1
Other nonresidential buildings-----	1 467 518	982 874	358 442	126 201	583 436	2	2	4	4	2
Land development for buildings-----	725 195	(NA)	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)	(NA)
<b>Nonbuilding construction</b> -----	23 911 103	16 597 132	4 107 350	3 206 621	21 463 894	(W)	(W)	1	1	(W)
Highways, streets, and related facilities-----	7 271 115	4 194 909	2 061 780	1 014 424	4 671 452	1	1	1	2	1
Outdoor swimming pools-----	646 068	515 650	77 479	52 938	114 100	4	5	12	13	6
Airport runways-----	35 495	(D)	(D)	1 268	28 593	13	(D)	(D)	35	5
Parking areas including private driveways-----	834 808	551 516	119 509	163 783	126 569	2	2	5	5	4
Fencing-----	416 699	333 987	38 263	44 448	104 858	5	5	7	7	8
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts-----	291 851	(D)	(D)	36 357	(NA)	5	(D)	(D)	12	(NA)
Bridges, tunnels, and elevated highways-----	1 288 756	1 065 323	156 183	67 249	778 618	1	1	2	3	1
Tunnels-----	211 411	195 820	11 998	3 592	126 260	1	1	4	15	1
Bridges and elevated highways-----	1 077 345	869 503	144 185	63 657	652 358	1	1	2	3	1
Dam and reservoir construction-----	493 839	437 290	33 886	22 662	282 601	1	1	6	14	2
Marine construction-----	302 450	211 268	25 165	66 016	272 401	1	1	4	5	2
Harbor and port facilities-----	190 699	133 273	25 599	31 826	179 337	3	2	12	5	2
Conservation and development construction-----	559 098	438 841	78 061	42 195	341 837	3	3	7	7	3
Power and communication transmission lines, towers, and related facilities-----	1 381 278	980 556	189 474	211 246	1 255 669	1	1	2	7	1
Sewers, water mains, and related facilities-----	3 053 451	2 478 284	354 668	220 498	2 105 143	1	1	3	3	1
Sewers, sewer lines, and related facilities-----	1 588 760	1 284 794	190 207	113 758	1 126 875	2	2	4	5	1
Water mains and related facilities-----	1 464 691	1 193 489	164 461	106 740	978 268	2	1	3	4	1
Pipeline, other than sewer or water lines-----	858 605	655 194	107 425	95 985	668 206	2	2	2	9	1
Mass transit construction-----	193 581	150 214	16 385	26 981	651 084	3	3	16	12	(W)
Subways-----	70 502	60 853	(D)	(D)	579 945	3	1	(D)	(D)	(W)
Railroads-----	123 078	89 361	(D)	(D)	71 139	5	5	(D)	(D)	2
Heavy industrial facilities-----	2 663 755	1 725 155	266 317	672 283	(NA)	(W)	(W)	1	1	(NA)
Blast furnaces, petroleum refineries, and chemical complexes-----	1 157 790	668 432	212 708	276 650	2 735 616	1	(W)	1	2	(W)
Power plants-----	1 505 965	1 056 722	53 609	395 633	4 734 403	(W)	(W)	3	1	(W)
Power plants, nuclear-----	(D)	(D)	(D)	(D)	3 236 086	(D)	(D)	(D)	(D)	(W)
Power plants, except nuclear-----	(D)	(D)	(D)	(D)	1 498 316	(D)	(D)	(D)	(D)	(W)
Sewage treatment and water treatment plants-----	1 092 740	866 131	176 350	50 258	866 463	1	1	5	6	1
Sewage treatment plants-----	641 872	507 530	109 507	24 834	563 463	2	2	2	4	1
Water treatment plants-----	450 868	358 600	66 842	25 424	303 000	2	1	12	12	1
Water storage facilities-----	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Heavy military construction-----	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Ships-----	(D)	(D)	(D)	(D)	(NA)	(D)	(D)	(D)	(D)	(NA)
Oilfields-----	(D)	(D)	(D)	(D)	491 497	(D)	(D)	(D)	(D)	1
Earthmoving, nonbuilding-----	691 818	576 789	62 382	52 646	(NA)	2	2	7	8	(NA)
Other nonbuilding construction-----	876 957	531 185	164 069	181 702	1 055 447	2	3	4	6	2
<b>Construction work, n.s.k.</b> -----	4 606 213	(NA)	(NA)	(NA)	4 937 369	1	(NA)	(NA)	(NA)	1

<sup>1</sup>In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.

**Table 13. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
				Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
	A	B	C	D	E	F	G
<b>United States</b> .....	<b>544 233</b>	<b>3 988 701</b>	<b>6 743 563</b>	<b>3 649 834</b>	<b>1 482 914</b>	<b>4 022 737</b>	<b>1 705 168</b>
Alabama .....	7 400	69 395	119 141	68 592	28 566	71 328	30 756
Alaska .....	1 507	10 091	17 677	8 400	3 449	10 565	4 649
Arizona .....	8 903	75 357	123 627	72 052	28 399	76 217	31 593
Arkansas .....	4 173	24 421	41 975	22 935	9 375	25 032	10 692
California .....	59 050	466 975	738 871	441 938	169 096	465 210	185 610
Colorado .....	8 957	61 015	101 370	54 594	21 649	61 603	25 598
Connecticut .....	10 755	70 271	121 894	62 409	26 068	72 190	31 078
Delaware .....	1 894	15 904	27 028	14 182	5 651	15 766	6 749
District of Columbia .....	409	8 816	14 821	8 705	3 568	9 133	3 815
Florida .....	33 938	253 108	435 127	243 838	101 946	252 002	108 274
Georgia .....	13 901	118 942	199 598	113 644	45 652	119 952	50 847
Hawaii .....	1 891	16 582	28 192	16 319	6 743	16 637	7 156
Idaho .....	2 092	10 164	16 019	8 605	3 160	10 196	4 058
Illinois .....	20 572	165 730	280 437	144 192	58 824	167 051	70 803
Indiana .....	10 973	78 492	134 808	68 445	28 189	79 176	34 009
Iowa .....	5 310	30 106	52 714	24 096	9 684	30 578	13 611
Kansas .....	5 607	36 830	63 210	32 701	13 123	37 539	16 054
Kentucky .....	6 311	45 192	77 107	40 416	16 308	45 647	19 477
Louisiana .....	6 339	62 823	107 665	61 939	25 597	63 907	27 078
Maine .....	4 425	26 779	49 147	22 417	9 967	27 470	12 728
Maryland .....	12 503	125 694	215 297	115 455	47 524	126 889	54 387
Massachusetts .....	17 859	112 184	192 503	98 507	41 215	113 708	48 622
Michigan .....	17 046	110 453	188 157	92 489	38 167	112 039	47 353
Minnesota .....	9 684	66 237	115 018	52 977	21 873	69 100	29 711
Mississippi .....	3 860	26 649	46 216	24 409	10 000	26 743	11 641
Missouri .....	11 457	83 292	137 526	76 086	30 526	84 933	35 435
Montana .....	2 137	7 974	11 871	6 564	2 253	8 092	3 071
Nebraska .....	3 868	20 897	35 792	17 699	7 178	21 637	9 149
Nevada .....	2 546	25 026	40 288	24 222	9 716	25 443	10 576
New Hampshire .....	5 337	29 889	50 929	26 487	10 657	30 487	12 962
New Jersey .....	22 248	146 565	250 783	132 722	54 867	148 790	64 049
New Mexico .....	3 707	23 233	39 049	21 575	8 677	23 484	10 179
New York .....	36 877	259 154	445 300	228 787	95 061	262 450	112 691
North Carolina .....	17 385	124 155	216 301	118 337	48 604	124 223	54 783
North Dakota .....	1 808	8 816	15 159	6 276	2 482	9 474	3 936
Ohio .....	20 801	143 254	245 757	121 517	50 245	143 971	61 393
Oklahoma .....	5 204	30 393	49 965	28 590	11 123	31 446	13 009
Oregon .....	6 469	29 685	44 590	26 436	9 531	29 130	10 929
Pennsylvania .....	25 075	188 158	324 784	165 601	68 460	190 370	81 944
Rhode Island .....	3 175	15 822	26 459	13 578	5 454	15 855	6 710
South Carolina .....	7 776	77 732	135 252	76 723	32 602	78 264	34 077
South Dakota .....	1 652	7 593	12 615	6 172	2 390	8 130	3 408
Tennessee .....	8 897	80 665	140 801	76 100	31 305	81 725	35 746
Texas .....	32 037	275 293	470 189	273 576	112 706	274 761	117 833
Utah .....	3 840	21 548	35 644	19 414	7 545	21 516	8 856
Vermont .....	2 639	12 859	22 607	10 967	4 773	12 953	5 715
Virginia .....	16 626	136 253	234 578	128 069	52 309	137 471	59 461
Washington .....	12 418	66 707	103 843	60 998	22 685	65 747	25 975
West Virginia .....	2 837	17 059	27 907	14 391	5 652	17 046	6 964
Wisconsin .....	10 731	61 234	105 704	49 009	20 057	62 189	26 777
Wyoming .....	1 306	7 211	12 227	5 659	2 237	7 452	3 168

<sup>1</sup>Construction workers during pay periods including 12th of March, May, August, and November.



# Payroll by State: 1987

July to September		October to December		Relative standard error of estimate (percent) for column--										Location of establishment
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
4 282 447	1 845 221	3 999 788	1 710 259	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	US
71 562	30 596	66 100	29 222	1	1	1	1	1	1	1	1	1	1	AL
12 124	5 428	9 276	4 150	3	3	3	3	3	3	3	3	3	3	AK
79 828	33 253	73 329	30 380	1	1	1	1	1	1	1	1	1	1	AZ
26 463	11 613	23 254	10 293	2	2	2	2	2	2	2	2	2	2	AR
491 068	197 326	469 683	186 838	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	CA
66 369	28 288	61 495	25 833	1	1	1	1	1	1	1	1	1	2	CO
74 988	33 154	71 498	31 593	1	1	1	1	1	1	1	1	1	1	CT
17 213	7 386	16 456	7 241	2	2	2	2	2	2	2	2	2	2	DE
9 202	3 843	8 224	3 594	1	2	1	2	1	2	1	2	1	2	DC
262 086	113 760	254 505	111 146	1	1	1	1	1	1	1	1	1	1	FL
124 721	53 132	117 453	49 966	1	1	1	1	1	1	1	1	1	1	GA
17 091	7 335	16 281	6 957	1	1	2	2	1	2	1	2	1	2	HI
11 529	4 644	10 324	4 156	2	3	3	4	3	4	3	4	3	4	ID
182 437	78 991	169 240	71 817	1	1	1	1	1	1	1	1	1	1	IL
86 628	38 002	79 717	34 607	1	1	1	1	1	1	1	1	1	1	IN
34 549	15 652	31 202	13 767	2	2	2	2	1	2	1	2	1	2	IA
40 579	17 909	36 502	16 122	1	1	1	1	1	1	1	1	1	1	KS
49 041	21 583	45 663	19 737	1	2	1	2	1	2	1	2	1	2	KY
63 829	27 818	61 616	27 169	1	1	1	1	1	1	1	1	1	1	LA
30 640	14 212	26 590	12 238	2	2	2	2	2	2	2	2	2	2	ME
133 154	58 128	127 278	55 256	1	1	1	1	1	1	1	1	1	1	MD
123 974	53 332	112 549	49 332	1	1	1	1	1	1	1	1	1	1	MA
123 768	54 238	113 518	48 398	1	1	1	1	1	1	1	1	1	1	MI
76 182	34 527	66 690	28 906	1	1	1	1	1	1	1	1	1	1	MN
28 602	12 713	26 841	11 860	2	2	2	2	2	2	2	2	2	2	MS
89 520	37 713	82 630	33 850	1	1	1	1	1	1	1	1	1	1	MO
9 302	3 646	7 939	2 900	2	3	3	3	3	3	2	3	3	3	MT
23 359	10 340	20 894	9 124	2	2	2	2	3	2	2	2	2	2	NE
26 015	10 660	24 426	9 336	2	2	2	2	2	2	2	2	2	2	NV
33 082	14 371	29 500	12 938	1	2	2	2	1	2	1	2	1	2	NH
156 673	68 031	148 074	63 834	1	1	1	1	1	1	1	1	1	1	NJ
25 287	10 754	22 588	9 438	2	2	2	2	2	2	2	2	2	2	NM
282 147	123 416	263 233	114 131	(W)	1	1	1	(W)	1	(W)	1	1	1	NY
130 484	58 084	123 578	54 828	1	1	1	1	1	1	1	1	1	1	NC
10 800	4 955	8 715	3 785	2	3	3	4	3	3	2	3	2	3	ND
159 531	70 139	147 997	63 978	1	1	1	1	1	1	1	1	1	1	OH
31 848	13 440	29 690	12 391	2	2	2	2	2	2	2	2	2	2	OK
32 739	12 639	30 434	11 489	2	2	2	2	2	2	2	2	2	2	OR
204 422	90 235	192 238	84 143	(W)	1	1	1	1	1	1	1	1	1	PA
17 631	7 361	16 225	6 933	2	2	2	2	2	2	2	2	2	2	RI
79 737	35 187	76 205	33 385	1	1	1	1	1	1	1	1	1	1	SC
8 751	3 767	7 319	3 048	3	4	4	5	3	4	3	5	3	4	SD
85 656	38 364	79 179	35 385	1	1	1	1	1	1	1	1	1	1	TN
283 834	123 398	269 001	116 251	(W)	1	(W)	1	(W)	1	1	1	1	1	TX
23 387	10 079	21 874	9 164	2	2	2	2	2	2	2	2	2	3	UT
14 640	6 426	12 877	5 692	2	3	2	3	2	3	2	3	2	3	VT
145 375	63 676	134 098	59 130	1	1	1	1	1	1	1	1	1	1	VA
72 856	28 770	67 229	26 412	1	1	1	1	1	1	1	1	1	1	WA
19 210	7 996	17 587	7 293	2	2	2	3	2	3	2	3	2	3	WV
69 941	31 127	63 796	27 742	1	1	1	1	1	1	1	1	1	1	WI
8 574	3 760	7 158	3 061	2	3	3	4	3	3	2	3	3	4	WY

**Table 14. Value of Construction Work for Establishments With Payroll by Location of Construction Work: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of construction work	1987					1982 construction receipts for work done in this State¹	Percent change 1987 (col A) to 1982 (col F)	Relative standard error of estimate (percent) for column—		
	Value of construction work done in this State	Construction work done by establishments located in this State		Construction work done by establishments not located in this State						
		Number	Value of construction work	Number	Value of construction work					
A	B	C	D	E	F	G	A	C	E	
United States -----	499 982 234	537 644	443 963 786	98 895	56 018 448	312 178 494	60.2	(W)	(W)	(W)
Alabama-----	6 039 126	7 314	5 002 309	2 362	1 036 816	3 613 220	67.1	1	1	2
Alaska-----	1 882 643	1 380	1 583 907	307	298 736	3 126 711	-39.8	2	2	2
Anazona-----	10 263 814	8 784	9 237 053	1 271	1 026 761	5 863 871	75.0	1	1	1
Arkansas-----	2 694 190	4 121	2 026 735	1 491	667 454	1 958 038	37.6	1	2	2
California-----	71 375 850	58 584	67 985 031	1 902	3 390 818	36 756 757	94.2	(W)	(W)	1
Colorado-----	7 287 928	8 794	6 550 185	1 043	737 742	7 716 425	-5.6	1	1	1
Connecticut-----	9 282 522	10 594	8 490 232	2 168	792 289	3 832 376	142.2	1	1	2
Delaware-----	1 843 436	1 872	1 401 165	1 707	442 271	1 165 517	58.2	2	2	3
District of Columbia-----	2 856 749	382	912 817	2 959	1 943 932	2 241 467	27.4	1	2	1
Florida-----	31 949 294	33 593	28 963 295	2 796	2 985 998	18 934 968	68.7	1	1	1
Georgia-----	14 934 794	13 712	12 350 153	3 685	2 584 641	6 858 966	117.7	1	1	1
Hawaii-----	3 081 786	1 877	2 843 070	268	238 715	2 045 456	50.7	1	1	2
Idaho-----	1 151 102	2 052	871 823	824	279 279	1 083 346	6.3	2	2	2
Illinois-----	23 086 672	20 436	21 230 855	3 317	1 855 817	12 692 800	81.9	1	1	1
Indiana-----	8 433 127	10 884	7 620 469	2 698	812 658	5 492 268	53.5	1	1	1
Iowa-----	3 035 342	5 248	2 630 308	1 698	405 033	2 685 943	13.0	1	1	6
Kansas-----	4 341 425	5 541	3 238 135	2 408	1 103 289	2 762 804	57.1	1	2	2
Kentucky-----	5 070 998	6 242	3 951 460	2 711	1 119 538	3 404 452	49.0	1	1	1
Louisiana-----	5 900 686	6 244	4 950 304	1 525	950 382	8 834 221	-33.2	1	1	1
Maine-----	2 610 939	4 384	2 332 698	864	278 240	1 186 861	120.0	2	2	3
Maryland-----	13 877 511	12 237	12 035 612	3 209	1 841 899	6 151 158	125.6	1	1	1
Massachusetts-----	15 679 792	17 648	14 060 803	2 924	1 618 989	6 937 013	126.0	1	1	1
Michigan-----	15 607 139	16 952	13 815 639	2 017	1 791 499	8 227 348	89.7	1	1	(W)
Minnesota-----	8 996 289	9 584	8 218 154	1 468	778 134	5 003 492	79.8	1	1	4
Mississippi-----	2 671 906	3 778	2 129 992	1 580	541 913	2 944 380	-9.3	2	2	2
Missouri-----	9 450 891	11 310	8 432 041	2 392	1 018 849	5 685 732	66.2	1	1	2
Montana-----	1 008 552	2 095	881 311	399	127 240	1 450 323	-30.5	2	2	5
Nebraska-----	2 179 792	3 811	1 833 681	1 019	346 111	1 778 914	22.5	2	2	7
Nevada-----	4 100 625	2 507	3 382 110	1 127	718 514	2 696 530	52.1	2	3	4
New Hampshire-----	3 693 661	5 284	3 008 271	2 329	685 390	1 394 398	164.9	2	2	5
New Jersey-----	21 175 314	21 904	18 072 738	4 049	3 102 575	8 909 461	137.7	1	1	1
New Mexico-----	2 601 128	3 669	2 125 869	947	475 259	2 379 655	9.3	2	2	2
New York-----	34 187 680	36 472	31 879 600	3 424	2 308 079	17 887 140	91.1	(W)	1	1
North Carolina-----	13 130 983	17 197	11 168 440	2 569	1 962 542	5 815 217	125.8	1	1	1
North Dakota-----	954 682	1 792	739 758	619	214 924	1 120 903	-14.8	3	3	7
Ohio-----	17 297 754	20 581	16 112 503	3 089	1 185 251	9 542 765	81.3	1	1	1
Oklahoma-----	3 095 102	5 110	2 578 369	1 447	516 732	4 602 682	-32.8	1	2	2
Oregon-----	3 706 502	6 397	3 220 461	1 134	486 040	2 604 522	42.3	1	2	2
Pennsylvania-----	21 142 311	24 765	19 614 493	3 891	1 527 818	12 253 389	72.5	1	1	2
Rhode Island-----	1 856 546	3 142	1 642 587	1 050	213 958	794 001	133.8	2	2	4
South Carolina-----	6 283 112	7 652	5 145 534	2 790	1 137 578	6 115 131	2.7	1	1	1
South Dakota-----	803 328	1 633	613 377	742	189 951	549 419	46.2	2	3	5
Tennessee-----	8 706 647	8 764	7 541 926	2 683	1 164 721	4 985 235	74.6	1	1	2
Texas-----	30 195 664	31 537	27 477 373	2 260	2 718 290	34 970 158	-13.7	(W)	1	1
Utah-----	2 565 695	3 736	2 236 956	547	328 738	2 151 692	19.2	2	2	2
Vermont-----	1 404 339	2 605	1 193 104	648	211 235	651 323	115.6	4	4	5
Virginia-----	17 419 182	16 442	13 852 172	4 559	3 567 009	7 070 408	146.4	1	1	1
Washington-----	9 075 377	12 317	8 188 492	1 580	886 885	7 586 388	19.6	1	1	3
West Virginia-----	1 889 279	2 737	1 250 301	1 959	638 977	1 728 225	9.3	1	2	2
Wisconsin-----	7 169 981	10 644	6 690 100	1 673	479 880	4 068 436	76.2	1	1	3
Wyoming-----	933 027	1 286	649 990	745	283 036	1 866 568	-50.0	2	2	3

<sup>1</sup>In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were collected.



**Table 15. Selected Ratios for Establishments With Payroll by State: 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Per dollar of value of construction work			
					Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost for machinery, equipment, and buildings
<b>United States -----</b>	<b>9.3</b>	<b>22.0</b>	<b>1 690.7</b>	<b>125.3</b>	<b>.222</b>	<b>.301</b>	<b>.264</b>	<b>.016</b>
Alabama -----	11.5	18.7	1 716.9	104.6	.219	.306	.311	.011
Alaska -----	8.5	33.6	1 751.8	166.6	.255	.276	.196	.037
Arizona -----	11.0	20.3	1 640.6	132.4	.199	.292	.319	.015
Arkansas -----	7.3	16.5	1 718.8	98.3	.209	.367	.229	.016
California -----	10.1	24.9	1 582.2	152.4	.209	.265	.297	.019
Colorado -----	8.9	20.5	1 661.4	135.7	.198	.277	.320	.017
Connecticut -----	8.3	25.3	1 734.6	135.9	.237	.285	.232	.014
Delaware -----	10.4	20.7	1 699.4	106.8	.241	.313	.248	.016
District of Columbia -----	27.4	25.4	1 681.1	153.3	.211	.188	.457	.012
Florida -----	9.7	18.2	1 719.1	120.1	.197	.328	.283	.014
Georgia -----	10.8	18.9	1 678.1	121.1	.196	.323	.282	.012
Hawaii -----	11.5	28.0	1 700.2	171.9	.213	.266	.313	.016
Idaho -----	6.6	20.1	1 576.1	169.6	.161	.261	.556	.013
Illinois -----	10.2	26.2	1 692.1	136.2	.243	.282	.254	.013
Indiana -----	9.0	22.0	1 717.5	112.1	.247	.332	.215	.013
Iowa -----	7.1	19.1	1 750.9	111.0	.216	.351	.233	.013
Kansas -----	8.2	20.7	1 716.3	116.5	.222	.329	.247	.016
Kentucky -----	8.8	18.2	1 706.2	101.9	.220	.350	.234	.015
Louisiana -----	12.1	19.2	1 713.8	89.1	.264	.318	.196	.019
Maine -----	7.4	19.5	1 835.3	100.9	.236	.316	.199	.021
Maryland -----	12.8	21.9	1 712.9	131.5	.213	.268	.293	.015
Massachusetts -----	8.0	24.4	1 716.0	134.4	.232	.293	.259	.016
Michigan -----	8.2	23.8	1 703.5	132.7	.228	.298	.260	.013
Minnesota -----	8.7	25.0	1 736.5	146.5	.216	.311	.264	.016
Mississippi -----	8.4	16.1	1 734.2	96.0	.204	.346	.242	.015
Missouri -----	9.2	23.2	1 651.1	126.1	.233	.302	.267	.011
Montana -----	4.8	18.9	1 488.7	122.3	.198	.289	.217	.019
Nebraska -----	6.9	18.0	1 712.8	102.3	.224	.367	.210	.013
Nevada -----	12.9	24.9	1 609.8	141.5	.232	.276	.277	.019
New Hampshire -----	7.1	20.7	1 703.9	118.7	.221	.326	.246	.016
New Jersey -----	8.4	25.5	1 711.1	136.9	.239	.296	.231	.014
New Mexico -----	7.9	17.2	1 680.8	101.0	.213	.319	.246	.019
New York -----	8.9	25.4	1 718.3	129.6	.248	.284	.227	.015
North Carolina -----	8.9	17.3	1 742.2	104.1	.207	.342	.266	.014
North Dakota -----	6.1	18.0	1 719.5	102.3	.221	.364	.211	.018
Ohio -----	8.7	22.5	1 715.5	126.3	.226	.307	.259	.013
Oklahoma -----	7.4	18.7	1 644.0	99.7	.239	.330	.227	.021
Oregon -----	6.0	20.4	1 502.1	123.8	.214	.304	.249	.021
Pennsylvania -----	9.3	23.0	1 726.1	120.3	.239	.299	.237	.014
Rhode Island -----	6.4	23.1	1 672.3	143.6	.207	.279	.314	.012
South Carolina -----	12.3	19.0	1 740.0	101.3	.230	.356	.263	.015
South Dakota -----	5.7	16.1	1 661.4	95.4	.210	.365	.196	.013
Tennessee -----	11.2	18.7	1 745.5	112.3	.205	.330	.277	.014
Texas -----	10.9	20.1	1 708.0	111.6	.229	.318	.261	.019
Utah -----	7.1	19.6	1 654.2	125.2	.198	.317	.271	.020
Vermont -----	6.3	18.4	1 758.1	115.1	.207	.335	.258	.013
Virginia -----	10.3	19.2	1 721.6	111.7	.216	.319	.262	.013
Washington -----	6.9	22.8	1 556.7	137.2	.213	.295	.268	.018
West Virginia -----	7.3	19.4	1 635.9	84.4	.279	.320	.139	.018
Wisconsin -----	7.2	22.6	1 726.2	122.2	.234	.326	.224	.013
Wyoming -----	6.9	18.8	1 695.6	101.5	.230	.329	.228	.028



**Table 16. Selected Statistics for Establishments With Payroll for Consolidated Metropolitan Statistical Areas and Selected Metropolitan Statistical Areas: 1987**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
	A	B	C	D	E	F	G	H	I	B	E
Albany-Schenectady-Troy, NY MSA .....	2 329	19 416	469 163	1 997 610	1 544 342	994 013	622 254	453 269	37 077	2	2
Allentown-Bethlehem, PA-NJ MSA .....	1 937	12 957	271 514	1 179 021	955 432	574 887	409 184	223 590	25 641	2	2
Atlanta, GA MSA .....	7 053	92 504	1 884 597	9 949 326	6 909 330	3 987 429	3 091 612	3 039 996	138 513	1	1
Austin, TX MSA .....	2 004	16 164	307 035	1 544 700	1 164 410	689 319	504 399	380 290	20 949	2	2
Baltimore, MD MSA .....	6 243	69 800	1 477 587	7 054 082	5 094 483	3 463 033	1 942 104	1 959 600	126 349	1	1
Birmingham, AL MSA .....	1 900	30 570	671 467	2 793 050	1 974 639	1 148 663	858 720	818 411	33 178	1	2
Boston-Lawrence-Salem, MA-NH CMSA .....	12 195	106 775	2 682 394	11 630 374	8 529 645	5 464 036	3 268 597	3 100 728	193 944	1	1
Boston, MA PMSA .....	8 065	75 301	1 971 028	8 662 678	6 189 758	4 020 477	2 310 510	2 472 921	122 302	1	1
Brockton, MA PMSA .....	476	4 124	92 274	382 859	329 699	194 278	139 335	53 160	7 802	7	4
Lawrence-Haverhill, MA-NH PMSA .....	1 247	8 756	197 477	793 655	640 911	426 504	241 057	152 744	22 615	2	3
Lowell, MA-NH PMSA .....	915	6 647	149 206	595 584	494 982	298 022	204 887	100 602	16 237	3	3
Nashua, NH PMSA .....	686	6 352	142 506	652 837	476 400	284 599	202 927	176 437	13 524	3	4
Salem-Gloucester, MA PMSA .....	807	5 595	129 904	542 762	397 896	240 157	169 882	144 866	11 464	3	3
Buffalo-Niagara Falls, NY CMSA .....	2 383	19 454	430 057	1 809 366	1 385 438	882 020	543 443	423 928	28 914	2	1
Buffalo, NY PMSA .....	1 948	16 147	362 184	1 510 667	1 150 566	721 022	466 322	360 101	24 804	2	2
Niagara Falls, NY PMSA .....	435	3 307	67 873	298 699	234 871	160 998	77 121	63 827	4 110	4	4
Charlotte-Gastonia-Rock Hill, NC-SC MSA .....	3 275	38 524	755 935	3 749 413	2 528 295	1 417 695	1 175 301	1 221 118	76 067	1	1
Chicago-Gary-Lake County, IL-IN-WI CMSA .....	13 969	167 514	4 588 978	18 684 577	13 696 027	8 985 397	5 058 317	4 988 550	258 689	1	1
Aurora-Elgin, IL PMSA .....	829	7 281	181 762	737 670	579 281	375 721	224 658	158 389	17 714	3	3
Chicago, IL PMSA .....	9 918	128 485	3 598 988	15 065 422	10 779 420	7 080 204	3 958 061	4 286 002	192 799	1	1
Gary-Hammond, IN PMSA .....	887	11 173	294 825	913 538	754 038	524 658	255 823	159 500	10 514	2	2
Joliet, IL PMSA .....	878	8 171	219 418	745 524	621 815	403 190	230 669	123 709	13 010	2	2
Kenosha, WI PMSA .....	212	1 792	42 656	142 091	115 591	74 906	46 737	26 500	3 126	6	6
Lake County, IL PMSA .....	1 245	10 612	251 329	1 080 332	845 882	526 718	342 369	234 450	21 526	2	2
Cincinnati-Hamilton, OH-KY-IN CMSA .....	3 752	36 829	791 884	3 628 799	2 554 973	1 542 067	1 088 896	1 073 826	58 041	1	1
Cincinnati, OH-KY-IN PMSA .....	3 141	30 460	652 671	3 080 465	2 119 991	1 268 913	910 966	960 474	48 608	1	1
Hamilton-Middletown, OH PMSA .....	611	6 369	139 213	548 334	434 982	273 155	177 929	113 353	9 433	3	3
Cleveland-Akron-Lorain, OH CMSA .....	5 225	46 603	1 131 489	4 708 653	3 456 875	2 223 105	1 371 908	1 251 779	66 229	1	1
Akron, OH PMSA .....	1 240	10 196	224 333	903 919	693 164	436 826	288 753	210 755	14 227	2	2
Cleveland, OH PMSA .....	3 451	32 823	832 496	3 503 186	2 523 609	1 631 073	992 485	979 577	46 337	1	1
Lorain-Elyria, OH PMSA .....	534	3 584	74 660	301 548	240 102	155 206	90 671	61 446	5 665	4	3
Columbus, OH MSA .....	2 590	27 892	638 293	3 171 669	2 236 868	1 407 622	905 275	934 801	61 286	1	2
Dallas-Fort Worth, TX CMSA .....	8 403	94 140	2 057 500	9 905 492	7 170 243	4 376 142	2 957 495	2 735 249	109 020	1	1
Dallas, TX PMSA .....	5 494	68 473	1 536 845	7 417 576	5 354 696	3 301 430	2 168 864	2 062 880	81 285	1	1
Fort Worth-Arlington, TX PMSA .....	2 909	25 666	520 656	2 487 915	1 815 547	1 074 712	788 630	672 369	27 735	2	2
Dayton-Springfield, OH MSA .....	1 737	16 160	354 542	1 742 361	1 336 052	829 815	541 799	406 309	21 535	2	2
Denver-Boulder, CO CMSA .....	4 456	46 493	982 591	4 810 359	3 414 090	2 093 225	1 427 706	1 396 269	76 077	1	1
Boulder-Longmont, CO PMSA .....	639	4 017	74 613	363 982	273 799	163 227	116 777	90 183	4 954	3	7
Denver, CO PMSA .....	3 818	42 476	907 978	4 446 377	3 140 291	1 929 998	1 310 929	1 306 086	71 123	1	1
Detroit-Ann Arbor, MI CMSA .....	8 184	75 837	1 966 378	8 637 296	6 248 309	4 091 496	2 431 548	2 388 987	141 318	1	1
Ann Arbor, MI PMSA .....	479	4 173	106 145	518 378	397 419	244 177	163 002	120 958	8 295	3	2
Detroit, MI PMSA .....	7 705	71 664	1 860 232	8 118 918	5 850 890	3 847 320	2 268 545	2 268 028	133 023	1	1
Fresno, CA MSA .....	1 488	13 046	266 457	1 264 546	907 417	543 999	381 097	357 129	14 282	2	2
Grand Rapids, MI MSA .....	1 562	15 146	347 075	1 626 989	1 190 367	727 054	503 177	438 621	35 382	1	2
Greensboro-Winston-Salem-High Point, NC MSA .....	2 471	25 542	480 553	2 090 483	1 598 770	946 188	718 035	491 713	35 517	2	2
Greenville-Spartanburg, SC MSA .....	1 533	40 725	949 627	3 754 902	2 716 087	2 054 979	(D)	1 038 815	32 346	1	1
Harrisburg-Lebanon-Carlisle, PA MSA .....	1 136	11 083	247 428	1 289 390	1 023 095	621 577	439 749	286 298	26 129	2	2
Hartford-New Britain-Middletown, CT CMSA .....	3 630	34 270	886 759	3 545 638	2 798 183	1 892 320	979 362	747 455	72 837	1	1
Bristol, CT PMSA .....	363	2 149	46 119	170 961	137 370	87 840	53 536	33 591	8 627	4	3
Hartford, CT PMSA .....	2 466	25 790	686 018	2 762 963	2 150 632	1 477 192	731 107	612 331	47 626	1	1
Middletown, CT PMSA .....	319	1 873	40 572	170 740	141 730	90 224	55 219	29 010	3 892	8	7
New Britain, CT PMSA .....	482	4 457	114 050	440 973	368 451	237 064	139 500	72 523	14 692	4	4
Honolulu, HI MSA .....	1 284	17 851	525 156	2 441 626	1 647 931	1 082 858	635 334	793 694	38 148	1	1
Houston-Galveston-Brazoria, TX CMSA .....	5 808	104 331	2 342 204	9 226 654	6 609 192	4 052 046	3 000 575	2 617 462	97 964	1	1
Brazoria, TX PMSA .....	296	6 207	130 349	373 232	308 071	209 039	102 517	65 160	5 798	2	3
Galveston-Texas City, TX PMSA .....	320	3 124	52 842	205 560	157 197	102 425	56 789	48 363	2 797	4	5
Houston, TX PMSA .....	5 190	95 000	2 159 013	8 647 863	6 143 923	3 740 582	2 841 269	2 503 940	89 369	1	1
Indianapolis, IN MSA .....	2 897	30 065	672 954	3 058 205	2 240 022	1 322 426	973 837	818 183	54 829	1	2
Jacksonville, FL MSA .....	2 272	25 989	514 487	2 359 935	1 703 134	969 614	795 431	656 801	38 494	1	2
Kansas City, MO-KS MSA .....	3 783	40 356	966 349	4 243 206	3 054 538	1 899 811	1 279 221	1 188 669	60 205	1	1
Knoxville, TN MSA .....	1 312	12 853	227 071	1 250 946	866 446	445 003	442 051	384 500	25 039	2	3
Los Angeles-Anaheim-Riverside, CA CMSA .....	23 733	274 151	6 866 178	33 891 613	23 305 405	15 484 322	8 722 219	10 586 208	380 498	1	1
Anaheim-Santa Ana, CA PMSA .....	5 096	69 831	1 853 076	9 667 918	6 072 501	3 979 061	2 467 901	3 595 417	94 189	1	1
Los Angeles-Long Beach, CA PMSA .....	11 990	135 471	3 494 693	17 238 983	11 908 312	8 022 093	4 266 595	5 330 671	176 528	1	1
Oxnard-Ventura, CA PMSA .....	1 349	13 281	315 842	1 260 160	1 037 709	667 221	391 327	222 451	20 425	3	2
Riverside-San Bernardino, CA PMSA .....	5 297	55 546	1 201 843	5 722 276	4 284 819	2 814 762	1 595 516	1 437 457	89 355	1	1
Louisville, KY-IN MSA .....	2 027	21 347	408 218	1 709 570	1 325 233	767 572	599 246	384 337	29 114	2	2
Memphis, TN-AR-MS MSA .....	1 819	21 473	415 557	1 927 680	1 425 119	837 251	627 703	502 561	28 575	1	2
Miami-Fort Lauderdale, FL CMSA .....	6 876	75 453	1 462 713	7 166 486	5 081 813	3 074 504	2 130 273	2 104 673	104 199	1	1
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA .....	3 199	37 257	738 104	3 674 817	2 583 276	1 575 324	1 082 263	1 091 541	57 995	2	2
Miami-Hialeah, FL PMSA .....	3 676	38 196	724 610	3 491 669	2 478 537	1 499 181	1 048 010	1 013 131	46 205	1	2
Milwaukee-Racine, WI CMSA .....	3 147	27 290	683 281	2 770 064	2 135 519	1 411 718	842 369	634 545	60 227	1	1
Milwaukee, WI PMSA .....	2 787	24 904	627 668	2 530 358	1 952 627	1 312 607	755 731	577 731	53 541	1	1
Racine, WI PMSA .....	360	2 386	55 614	239 706	182 892	99 111	86 639	56 814	6 686	4	4
Minneapolis-St. Paul, MN-WI MSA .....	5 428	59 209	1 595 947	7 427 313	5 286 727	3 265 100	2 176 789	2 140 586	110 882	1	1
Nashville, TN MSA .....	2 256	31 220	826 679	3 036 138	2 171 616	1 230 883	1 002 549	864 522	55 400	1	1
New Haven-Meriden, CT MSA .....	1 632	14 738	380 345	1 425 001	1 137 747	740 546	427 289	287 254	25 098	2	2
New Orleans, LA MSA .....	1 866	20 062	391 679	1 553 983	1 236 134	779 683	478 891	317 849	14 641	2	2



**Table 16. Selected Statistics for Establishments With Payroll for Consolidated Metropolitan Statistical Areas and Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	Number of establishments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
										B	E
A	B	C	D	E	F	G	H	I		B	E
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	42 066	386 766	10 285 662	41 965 365	32 203 048	21 564 684	11 639 884	9 762 317	552 103	(W)	(W)
Bergen-Passaic, NJ PMSA	4 302	41 036	1 125 783	4 163 246	3 250 779	2 291 368	1 168 467	912 467	51 354	1	1
Bridgeport-Milford, CT PMSA	1 256	9 759	243 370	1 063 932	787 962	515 240	285 819	275 970	18 973	2	2
Danbury, CT PMSA	760	5 084	131 223	552 023	431 769	268 612	176 932	120 254	14 192	3	4
Jersey City, NJ PMSA	821	8 665	240 569	828 967	689 819	465 603	241 146	139 149	8 084	2	2
Middlesex-Somerset-Hunterdon, NJ PMSA	3 081	27 192	718 832	3 052 498	2 348 234	1 594 009	894 559	704 264	49 794	1	2
Monmouth-Ocean, NJ PMSA	3 305	21 653	503 649	2 568 111	1 916 873	1 241 390	755 399	651 239	51 587	2	2
Nassau-Suffolk, NY PMSA	8 478	61 366	1 473 591	6 192 526	4 843 115	3 069 702	1 869 299	1 349 411	98 258	1	1
New York, NY PMSA	12 684	152 416	4 316 477	16 673 943	12 731 212	8 794 287	4 262 547	3 942 731	157 631	1	1
Newark, NJ PMSA	5 246	42 725	1 108 251	4 893 478	3 758 633	2 385 100	1 440 868	1 134 845	66 535	1	2
Norwalk, CT PMSA	495	3 776	98 923	463 618	307 753	184 685	128 055	155 865	7 478	4	6
Orange County, NY PMSA	961	5 748	116 407	478 787	403 458	263 789	150 886	75 330	11 311	3	4
Stamford, CT PMSA	677	7 347	208 589	1 034 236	733 443	490 899	265 910	300 793	16 905	2	2
Norfolk-Virginia Beach-Newport News, VA MSA	3 633	37 366	672 654	3 170 163	2 341 931	1 324 593	1 068 710	828 232	85 711	2	2
Oklahoma City, OK MSA	1 695	12 758	237 507	1 168 733	850 591	479 744	395 946	318 142	17 105	2	2
Omaha, NE-IA MSA	1 595	12 331	255 033	1 107 181	837 290	473 362	383 820	269 891	17 685	2	2
Orlando, FL MSA	2 744	32 066	613 183	3 345 682	2 303 615	1 333 859	1 071 504	1 042 067	59 453	1	1
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	12 802	132 471	3 207 777	13 043 124	9 732 116	6 288 303	3 783 122	3 311 008	240 638	1	1
Philadelphia, PA-NJ PMSA	10 366	108 952	2 685 354	10 782 241	8 120 392	5 230 625	3 108 282	2 661 850	192 990	1	1
Trenton, NJ PMSA	712	5 099	122 896	647 303	397 091	289 028	185 361	250 211	7 917	3	4
Vineland-Millville-Bridgeton, NJ PMSA	376	2 586	56 324	227 641	176 164	114 152	65 658	51 477	4 685	3	3
Wilmington, DE-NJ-MD PMSA	1 348	15 834	343 204	1 385 939	1 038 468	654 498	423 821	347 470	35 046	2	2
Phoenix, AZ MSA	5 434	68 367	1 456 817	7 564 566	5 070 545	3 131 373	2 176 971	2 494 021	104 670	1	1
Pittsburgh-Beaver Valley, PA CMSA	4 546	52 316	1 281 414	5 191 802	3 978 870	2 715 364	1 415 807	1 212 932	80 841	1	1
Beaver County, PA PMSA	210	1 786	41 341	142 484	115 711	77 879	44 549	26 773	4 561	4	5
Pittsburgh, PA PMSA	4 336	50 531	1 240 073	5 049 317	3 863 159	2 637 485	1 371 258	1 186 159	76 280	1	1
Portland-Vancouver, OR-WA CMSA	3 489	25 150	540 609	2 549 523	1 892 527	1 175 234	782 377	656 996	35 472	2	1
Portland, OR PMSA	2 877	21 427	466 928	2 180 293	1 602 830	999 190	654 865	577 462	29 274	2	2
Vancouver, WA PMSA	612	3 723	73 681	369 230	289 697	176 045	127 512	79 533	6 198	3	2
Providence-Pawtucket-Fall River, RI-MA CMSA	3 409	23 140	528 751	2 573 769	1 785 292	1 095 296	724 893	788 477	50 221	2	2
Fall River, MA-RI PMSA	396	2 617	45 550	178 233	149 824	95 861	59 184	28 409	5 327	7	5
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA	996	6 370	141 829	678 548	524 205	332 992	199 847	154 343	13 581	3	3
Providence, RI PMSA	2 017	14 153	341 372	1 716 988	1 111 263	666 442	465 863	605 726	31 313	2	2
Raleigh-Durham, NC MSA	2 371	21 905	389 157	2 030 774	1 426 311	795 774	670 736	604 464	39 919	2	2
Richmond-Petersburg, VA MSA	2 834	30 078	574 236	2 478 883	1 871 772	1 126 540	794 285	607 110	47 479	1	2
Rochester, NY MSA	2 115	17 019	398 723	1 761 974	1 351 579	836 031	563 648	410 395	32 466	1	2
Sacramento, CA MSA	3 827	32 855	760 655	3 879 670	2 642 542	1 640 609	1 069 622	1 237 127	70 759	1	1
St. Louis, MO-IL MSA	5 351	61 400	1 598 630	6 658 679	4 806 553	3 188 121	1 877 503	1 852 126	95 388	1	1
Salt Lake City-Ogden, UT MSA	2 512	19 853	397 279	2 049 080	1 456 089	868 743	639 479	592 991	33 992	2	2
San Antonio, TX MSA	2 700	32 848	601 428	2 686 665	2 000 664	1 210 883	829 948	686 001	40 960	1	1
San Diego, CA MSA	5 091	58 835	1 342 232	6 267 019	4 434 057	2 855 380	1 700 241	1 832 961	81 760	1	1
San Francisco-Oakland-San Jose, CA CMSA	14 430	150 979	4 255 369	19 093 665	13 584 705	8 924 847	5 039 954	5 508 960	229 655	1	1
Oakland, CA PMSA	4 363	48 740	1 395 341	6 414 026	4 664 529	3 135 055	1 680 889	1 749 496	84 640	1	1
San Francisco, CA PMSA	3 987	50 035	1 443 555	6 114 284	4 200 470	2 683 449	1 602 271	1 913 814	69 854	1	1
San Jose, CA PMSA	2 888	31 012	911 477	4 170 375	2 939 956	1 966 567	1 066 568	1 230 419	31 853	2	1
Santa Cruz, CA PMSA	801	4 100	86 024	437 395	335 344	220 266	127 306	102 051	5 089	4	5
Santa Rosa-Petaluma, CA PMSA	1 507	8 706	204 950	1 003 826	755 950	472 525	310 720	247 877	22 800	2	3
Vallejo-Fairfield-Napa, CA PMSA	885	8 386	214 024	953 759	688 456	446 985	252 200	265 303	15 418	3	2
Scranton—Wilkes-Barre, PA MSA	1 859	12 025	223 920	1 034 754	825 870	508 095	353 772	208 885	27 224	2	3
Seattle-Tacoma, WA CMSA	7 011	57 410	1 374 977	6 429 131	4 599 963	2 883 287	1 840 222	1 829 168	84 023	1	1
Seattle, WA PMSA	5 804	48 929	1 189 955	5 585 185	3 983 225	2 503 045	1 580 062	1 601 960	68 689	1	1
Tacoma, WA PMSA	1 207	8 481	185 023	843 946	616 738	380 242	260 160	227 208	15 334	2	3
Springfield, MA MSA	1 355	10 425	245 668	1 122 689	797 271	475 275	345 725	325 418	18 836	3	3
Syracuse, NY MSA	1 569	12 652	295 918	1 312 924	1 009 707	602 915	435 889	303 216	29 052	2	2
Tampa-St. Petersburg-Clearwater, FL MSA	5 308	53 013	942 151	4 884 107	3 564 488	1 983 994	1 681 442	1 319 620	93 278	1	1
Toledo, OH MSA	1 175	11 496	282 600	1 240 311	876 311	547 166	350 820	364 000	19 948	2	2
Tucson, AZ MSA	1 668	17 970	339 974	1 581 184	1 091 434	689 927	474 080	489 750	23 180	1	2
Tulsa, OK MSA	1 383	12 846	268 659	984 977	794 444	513 910	310 889	190 533	15 474	2	2
Washington, DC-MD-VA MSA	8 875	143 620	3 324 557	15 715 244	10 728 476	6 804 949	4 143 416	4 986 768	230 561	1	1
West Palm Beach-Boca Raton-Delray Beach, FL MSA	2 768	30 259	584 431	3 026 259	2 109 868	1 221 662	946 702	916 392	51 605	2	2
Youngstown-Warren, OH MSA	915	6 670	145 480	578 666	469 015	295 779	182 481	109 651	9 650	3	2





# APPENDIX A.

## Explanation of Terms

**Construction**—Is composed of three broad categories:

1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
2. **Additions, alterations or reconstruction**—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

**Number of establishments in business during year**—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

**Proprietors and working partners**—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

**All employees**—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

**Construction workers**—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment

operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

**Other employees**—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

**Construction worker hours**—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

**Payroll**—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

**Employer costs for fringe benefits (supplemental labor costs)**—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

**Legally required contributions**—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

**Voluntary payments**—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

**Value of construction work done**—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.



Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

**Land receipts**—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

**Other business receipts**—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

**Net value of construction work**—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

**Value added**—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

**Selected costs**—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems; etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

- all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

**Rental costs for machinery, equipment, and buildings**—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It



excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

**Selected purchased services**—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

**Assets and depreciation**—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

**Capital expenditures**—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

**Inventories**—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale.

Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

**Ownership of construction projects**—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

**Value of construction work subcontracted in from others**—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

**Types of construction**—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (include townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- **Hotels and motels**—Includes hotels, motels, and tourist cabins intended for transient accommodations.



- **Other residential buildings**—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- **Other commercial buildings, such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

#### Nonbuilding construction:

- **Highways, streets and related work, such as installation of guardrails, highway signs, etc.**—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Recreational facilities**—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Bridges and elevated highways**—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- **Tunnels**—Includes highway, pedestrian, and railroad tunnels.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities**—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants, and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers, and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.



- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.





## APPENDIX B.

### Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
<b>15</b>	<b>BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS</b>	<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.</b>
<b>152</b>	<b>General Building Contractors—Residential Buildings</b>	<b>173</b>	<b>Electrical Work Special Trade Contractors</b>
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	<b>174</b>	<b>Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors</b>
<b>153</b>	<b>Operative Builders</b>	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
<b>154</b>	<b>General Building Contractors—Nonresidential Buildings</b>	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	<b>175</b>	<b>Carpentry and Floor Work Special Trade Contractors</b>
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
<b>16</b>	<b>HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS</b>	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
<b>161</b>	<b>Highway and Street Construction, Except Elevated Highways</b>	<b>176</b>	<b>Roofing, Siding, and Sheet Metal Work Special Trade Contractors</b>
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
<b>162</b>	<b>Heavy Construction, Except Highway and Street Construction</b>	<b>177</b>	<b>Concrete Work Special Trade Contractors</b>
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Powerline Construction	<b>178</b>	<b>Water Well Drilling Special Trade Contractors</b>
1629	Heavy Construction, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS</b>	<b>179</b>	<b>Miscellaneous Special Trade Contractors</b>
<b>171</b>	<b>Plumbing, Heating, and Air-Conditioning Special Trade Contractors</b>	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
<b>172</b>	<b>Painting and Paper Hanging Special Trade Contractors</b>	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified
		<b>6552</b>	<b>LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES</b>





# **APPENDIX C.**

## **Regions, Census Divisions, and States**

### **NORTHEAST**

#### **New England States**

Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont

#### **Middle Atlantic States**

New Jersey  
New York  
Pennsylvania

### **MIDWEST**

#### **East North Central States**

Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin

#### **West North Central States**

Iowa  
Kansas  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

### **SOUTH**

#### **South Atlantic States**

Delaware  
District of Columbia  
Florida  
Georgia  
Maryland

#### **South Atlantic States—Con.**

North Carolina  
South Carolina  
Virginia  
West Virginia

#### **East South Central States**

Alabama  
Kentucky  
Mississippi  
Tennessee

#### **West South Central States**

Arkansas  
Louisiana  
Oklahoma  
Texas

### **WEST**

#### **Mountain States**

Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming

#### **Pacific States**

Alaska  
California  
Hawaii  
Oregon  
Washington





# APPENDIX D. Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

## **Abilene, TX MSA**

Taylor County, TX

## **Akron, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA**

## **Albany, GA MSA**

Dougherty County, GA

Lee County, GA

## **Albany-Schenectady-Troy, NY MSA**

Albany County, NY

Greene County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

## **Albuquerque, NM MSA**

Bernalillo County, NM

## **Alexandria, LA MSA**

Rapides Parish, LA

## **Allentown-Bethlehem, PA-NJ MSA**

Warren County, NJ

Carbon County, PA

Lehigh County, PA

Northampton County, PA

## **Altoona, PA MSA**

Blair County, PA

## **Amarillo, TX MSA**

Potter County, TX

Randall County, TX

## **Anaheim-Santa Ana, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA**

## **Anchorage, AK MSA**

Anchorage Borough, AK

## **Anderson, IN MSA**

Madison County, IN

## **Anderson, SC MSA**

Anderson County, SC

## **Ann Arbor, MI PMSA—see Detroit-Ann Arbor, MI CMSA**

## **Anniston, AL MSA**

Calhoun County, AL

## **Appleton-Oshkosh-Neenah, WI MSA**

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

## **Asheville, NC MSA**

Buncombe County, NC

## **Athens, GA MSA**

Clarke County, GA

Jackson County, GA

Madison County, GA

Oconee County, GA

## **Atlanta, GA MSA**

Barrow County, GA

Butts County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

De Kalb County, GA

Douglas County, GA

## **Atlanta, GA MSA—Con.**

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

Newton County, GA

Paulding County, GA

Rockdale County, GA

Spalding County, GA

Walton County, GA

## **Atlantic City, NJ MSA**

Atlantic County, NJ

Cape May County, NJ

## **Augusta, GA-SC MSA**

Columbia County, GA

McDuffie County, GA

Richmond County, GA

Aiken County, SC

## **Aurora-Elgin, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA**

## **Austin, TX MSA**

Hays County, TX

Travis County, TX

Williamson County, TX

## **Bakersfield, CA MSA**

Kern County, CA

## **Baltimore, MD MSA**

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore city, MD

## **Bangor, ME MSA**

Penobscot County, ME (part)

Bangor city, ME

Brewer city, ME

Eddington town, ME

Glenburn town, ME

Hampden town, ME

Hermon town, ME

Holden town, ME

Kenduskeag town, ME

Old Town city, ME

Orono town, ME

Orrington town, ME

Penobscot Indian Island Indian Reservation, ME

Veazie town, ME

Waldo County, ME (part)

Winterport town, ME

## **Baton Rouge, LA MSA**

Ascension Parish, LA

East Baton Rouge Parish, LA

Livingston Parish, LA

West Baton Rouge Parish, LA

## **Battle Creek, MI MSA**

Calhoun County, MI

## **Beaumont-Port Arthur, TX MSA**

Hardin County, TX

Jefferson County, TX

Orange County, TX

## **Beaver County, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA**

## **Bellingham, WA MSA**

Whatcom County, WA

## **Benton Harbor, MI MSA**

Berrien County, MI

## **Bergen-Passaic, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

## **Billings, MT MSA**

Yellowstone County, MT

## **Bliloxi-Gulfport, MS MSA**

Hancock County, MS

Harrison County, MS

## **Binghamton, NY MSA**

Broome County, NY

Tioga County, NY

## **Birmingham, AL MSA**

Blount County, AL

Jefferson County, AL

St. Clair County, AL

Shelby County, AL

Walker County, AL

## **Bismarck, ND MSA**

Burleigh County, ND

Morton County, ND

## **Bloomington, IN MSA**

Monroe County, IN

## **Bloomington-Normal, IL MSA**

McLean County, IL

## **Bolse City, ID MSA**

Ada County, ID

## **Boston, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA**

## **Boston-Lawrence-Salem, MA-NH CMSA**

## **Boston-Lawrence-Salem, MA-NH CMSA**

## **Boston, MA PMSA**

Bristol County, MA (part)

Mansfield town, MA

Norton town, MA

Raynham town, MA

Essex County, MA (part)

Lynn city, MA

Lynnfield town, MA

Nahant town, MA

Saugus town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA



**Boston-Lawrence-Salem, MA-NH CMSA—Con.**

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA  
 Framingham town, MA  
 Groton town, MA  
 Holliston town, MA  
 Hopkinton town, MA  
 Hudson town, MA  
 Lexington town, MA  
 Lincoln town, MA  
 Littleton town, MA  
 Malden city, MA  
 Marlborough city, MA  
 Maynard town, MA  
 Medford city, MA  
 Melrose city, MA  
 Natick town, MA  
 Newton city, MA  
 North Reading town, MA  
 Reading town, MA  
 Sherborn town, MA  
 Shirley town, MA  
 Somerville city, MA  
 Stoneham town, MA  
 Stow town, MA  
 Sudbury town, MA  
 Townsend town, MA  
 Wakefield town, MA  
 Waltham city, MA  
 Watertown town, MA  
 Wayland town, MA  
 Weston town, MA  
 Wilmington town, MA  
 Winchester town, MA  
 Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA  
 Braintree town, MA  
 Brookline town, MA  
 Canton town, MA  
 Cohasset town, MA  
 Dedham town, MA  
 Dover town, MA  
 Foxborough town, MA  
 Franklin town, MA  
 Holbrook town, MA  
 Medfield town, MA  
 Medway town, MA  
 Millis town, MA  
 Milton town, MA  
 Needham town, MA  
 Norfolk town, MA  
 Norwood town, MA  
 Quincy city, MA  
 Randolph town, MA  
 Sharon town, MA  
 Stoughton town, MA  
 Walpole town, MA  
 Wellesley town, MA  
 Westwood town, MA  
 Weymouth town, MA  
 Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA  
 Duxbury town, MA  
 Hanover town, MA  
 Hanson town, MA  
 Hingham town, MA  
 Hull town, MA

**Boston-Lawrence-Salem, MA-NH CMSA—Con.**

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.

Kingston town, MA  
 Lakeville town, MA  
 Marshfield town, MA  
 Middleborough town, MA  
 Norwell town, MA  
 Pembroke town, MA  
 Plymouth town, MA  
 Plympton town, MA  
 Rockland town, MA  
 Scituate town, MA

Suffolk County, MA (part)

Boston city, MA  
 Chelsea city, MA  
 Revere city, MA  
 Winthrop town, MA

Worcester County, MA (part)

Berlin town, MA  
 Bolton town, MA  
 Harvard town, MA  
 Hopedale town, MA  
 Lancaster town, MA  
 Mendon town, MA  
 Milford town, MA  
 Southborough town, MA  
 Upton town, MA

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA  
 Bridgewater town, MA  
 Brockton city, MA  
 East Bridgewater town, MA  
 Halifax town, MA  
 West Bridgewater town, MA  
 Whitman town, MA

Lawrence-Haverhill, MA-NH PMSA

Essex County, MA (part)

Amesbury town, MA  
 Andover town, MA  
 Boxford town, MA  
 Georgetown town, MA  
 Groveland town, MA  
 Haverhill city, MA  
 Lawrence city, MA  
 Merrimac town, MA  
 Methuen town, MA  
 Newbury town, MA  
 Newburyport city, MA  
 North Andover town, MA  
 Salisbury town, MA  
 West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH  
 Brentwood town, NH  
 Danville town, NH  
 Derry town, NH  
 East Kingston town, NH  
 Hampstead town, NH  
 Kingston town, NH  
 Newton town, NH  
 Plaistow town, NH  
 Salem town, NH  
 Sandown town, NH  
 Seabrook town, NH  
 Windham town, NH

**Boston-Lawrence-Salem, MA-NH CMSA—Con.**

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA  
 Chelmsford town, MA  
 Dracut town, MA  
 Dunstable town, MA  
 Lowell city, MA  
 Pepperell town, MA  
 Tewksbury town, MA  
 Tyngsborough town, MA  
 Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

Amherst town, NH  
 Brookline town, NH  
 Hollis town, NH  
 Hudson town, NH  
 Litchfield town, NH  
 Merrimack town, NH  
 Milford town, NH  
 Mont Vernon town, NH  
 Nashua city, NH  
 Wilton town, NH

Rockingham County, NH (part)

Londonderry town, NH

Salem-Gloucester, MA PMSA

Essex County, MA (part)

Beverly city, MA  
 Danvers town, MA  
 Essex town, MA  
 Gloucester city, MA  
 Hamilton town, MA  
 Ipswich town, MA  
 Manchester town, MA  
 Marblehead town, MA  
 Middleton town, MA  
 Peabody city, MA  
 Rockport town, MA  
 Rowley town, MA  
 Salem city, MA  
 Swampscott town, MA  
 Topsfield town, MA  
 Wenham town, MA

**Boulder-Longmont, CO PMSA—see Denver-****Boulder, CO CMSA****Bradenton, FL MSA**

Manatee County, FL

**Brazoria, TX PMSA—see Houston-Galveston-****Brazoria, TX CMSA****Bremerton, WA MSA**

Kitsap County, WA

**Bridgeport-Milford, CT PMSA—see New York-****Northern New Jersey-Long Island, NY-**  
**NJ-CT CMSA****Bristol, CT PMSA—see Hartford-New Britain-**  
**Middletown, CT CMSA****Brockton, MA PMSA—see Boston-Lawrence-**  
**Salem, MA-NH CMSA****Brownsville-Harlingen, TX MSA**

Cameron County, TX

**Bryan-College Station, TX MSA**

Brazos County, TX

**Buffalo, NY PMSA—see Buffalo-Niagara Falls,**  
**NY CMSA**



**Buffalo-Niagara Falls, NY CMSA**

Buffalo, NY PMSA  
 Erie County, NY  
 Niagara Falls, NY PMSA  
 Niagara County, NY

**Burlington, NC MSA**

Alamance County, NC

**Burlington, VT MSA**

Chittenden County, VT (part)  
 Burlington city, VT  
 Charlotte town, VT  
 Colchester town, VT  
 Essex Junction village, VT  
 Essex town balance, VT  
 Hinesburg town, VT  
 Jericho town, VT  
 Jericho village, VT  
 Milton town, VT  
 Milton village, VT  
 Richmond town, VT  
 Richmond village, VT  
 St. George town, VT  
 Shelburne town, VT  
 South Burlington city, VT  
 Williston town, VT  
 Winooski city, VT  
 Franklin County, VT (part)  
 Georgia town, VT  
 Grand Isle town, VT  
 South Hero town, VT

**Canton, OH MSA**

Carroll County, OH  
 Stark County, OH

**Casper, WY MSA**

Natrona County, WY

**Cedar Rapids, IA MSA**

Linn County, IA

**Champaign-Urbana-Rantoul, IL MSA**

Champaign County, IL

**Charleston, SC MSA**

Berkeley County, SC  
 Charleston County, SC  
 Dorchester County, SC

**Charleston, WV MSA**

Kanawha County, WV  
 Putnam County, WV

**Charlotte-Gastonia-Rock Hill, NC-SC MSA**

Cabarrus County, NC  
 Gaston County, NC  
 Lincoln County, NC  
 Mecklenburg County, NC  
 Rowan County, NC  
 Union County, NC  
 York County, SC

**Charlottesville, VA MSA**

Albemarle County, VA  
 Fluvanna County, VA  
 Greene County, VA  
 Charlottesville city, VA

**Chattanooga, TN-GA MSA**

Catoosa County, GA  
 Dade County, GA  
 Walker County, GA  
 Hamilton County, TN  
 Marion County, TN  
 Sequatchie County, TN

**Cheyenne, WY MSA**

Laramie County, WY

**Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA****Chicago-Gary-Lake County, IL-IN-WI CMSA**

Aurora-Elgin, IL PMSA  
 Kane County, IL  
 Kendall County, IL  
 Chicago, IL PMSA  
 Cook County, IL  
 Du Page County, IL  
 McHenry County, IL  
 Gary-Hammond, IN PMSA  
 Lake County, IN  
 Porter County, IN  
 Joliet, IL PMSA  
 Grundy County, IL  
 Will County, IL  
 Kenosha, WI PMSA  
 Kenosha County, WI  
 Lake County, IL PMSA  
 Lake County, IL

**Chico, CA MSA**

Butte County, CA

**Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA****Cincinnati-Hamilton, OH-KY-IN CMSA****Cincinnati-Hamilton, OH-KY-IN CMSA**

Cincinnati, OH-KY-IN PMSA  
 Dearborn County, IN  
 Boone County, KY  
 Campbell County, KY  
 Kenton County, KY  
 Clermont County, OH  
 Hamilton County, OH  
 Warren County, OH  
 Hamilton-Middletown, OH PMSA  
 Butler County, OH

**Clarksville-Hopkinsville, TN-KY MSA**

Christian County, KY  
 Montgomery County, TN

**Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA****Cleveland-Akron-Lorain, OH CMSA**

Akron, OH PMSA  
 Portage County, OH  
 Summit County, OH  
 Cleveland, OH PMSA  
 Cuyahoga County, OH  
 Geauga County, OH  
 Lake County, OH  
 Medina County, OH  
 Lorain-Elyria, OH PMSA  
 Lorain County, OH

**Colorado Springs, CO MSA**

El Paso County, CO

**Columbia, MO MSA**

Boone County, MO

**Columbia, SC MSA**

Lexington County, SC  
 Richland County, SC

**Columbus, GA-AL MSA**

Russell County, AL  
 Chattahoochee County, GA  
 Muscogee County, GA

**Columbus, OH MSA**

Delaware County, OH  
 Fairfield County, OH  
 Franklin County, OH  
 Licking County, OH  
 Madison County, OH  
 Pickaway County, OH  
 Union County, OH

**Corpus Christi, TX MSA**

Nueces County, TX  
 San Patricio County, TX

**Cumberland, MD-WV MSA**

Allegany County, MD  
 Mineral County, WV

**Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA****Dallas-Fort Worth, TX CMSA**

Dallas, TX PMSA  
 Collin County, TX  
 Dallas County, TX  
 Denton County, TX  
 Ellis County, TX  
 Kaufman County, TX  
 Rockwall County, TX  
 Fort Worth-Arlington, TX PMSA  
 Johnson County, TX  
 Parker County, TX  
 Tarrant County, TX

**Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA****Danville, VA MSA**

Pittsylvania County, VA  
 Danville city, VA

**Davenport-Rock Island-Moline, IA-IL MSA**

Henry County, IL  
 Rock Island County, IL  
 Scott County, IA

**Dayton-Springfield, OH MSA**

Clark County, OH  
 Greene County, OH  
 Miami County, OH  
 Montgomery County, OH

**Daytona Beach, FL MSA**

Volusia County, FL

**Decatur, IL MSA**

Macon County, IL

**Denver, CO PMSA—see Denver-Boulder, CO CMSA****Denver-Boulder, CO CMSA**

Boulder-Longmont, CO PMSA  
 Boulder County, CO  
 Denver, CO PMSA  
 Adams County, CO  
 Arapahoe County, CO  
 Denver County, CO  
 Douglas County, CO  
 Jefferson County, CO

**Des Moines, IA MSA**

Dallas County, IA  
 Polk County, IA  
 Warren County, IA

**Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA****Detroit-Ann Arbor, MI CMSA**

Ann Arbor, MI PMSA  
 Washtenaw County, MI  
 Detroit, MI PMSA  
 Lapeer County, MI  
 Livingston County, MI  
 Macomb County, MI  
 Monroe County, MI  
 Oakland County, MI  
 St. Clair County, MI  
 Wayne County, MI

**Dothan, AL MSA**

Dale County, AL  
 Houston County, AL

**Dubuque, IA MSA**

Dubuque County, IA



**Duluth, MN-WI MSA**  
St. Louis County, MN  
Douglas County, WI

**Eau Claire, WI MSA**  
Chippewa County, WI  
Eau Claire County, WI

**El Paso, TX MSA**  
El Paso County, TX

**Elkhart-Goshen, IN MSA**  
Elkhart County, IN

**Elmira, NY MSA**  
Chemung County, NY

**Enid, OK MSA**  
Garfield County, OK

**Erle, PA MSA**  
Erie County, PA

**Eugene-Springfield, OR MSA**  
Lane County, OR

**Evansville, IN-KY MSA**  
Posey County, IN  
Vanderburgh County, IN  
Warrick County, IN  
Henderson County, KY

**Fall River, MA-RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA**

**Fargo-Moorhead, ND-MN MSA**  
Clay County, MN  
Cass County, ND

**Fayetteville, NC MSA**  
Cumberland County, NC

**Fayetteville-Springdale, AR MSA**  
Washington County, AR

**Fitchburg-Leominster, MA MSA**  
Middlesex County, MA (part)  
Ashby town, MA  
Worcester County, MA (part)  
Ashburnham town, MA  
Fitchburg city, MA  
Leominster city, MA  
Lunenburg town, MA  
Westminster town, MA

**Flint, MI MSA**  
Genesee County, MI

**Florence, AL MSA**  
Colbert County, AL  
Lauderdale County, AL

**Florence, SC MSA**  
Florence County, SC

**Fort Collins-Loveland, CO MSA**  
Larimer County, CO

**Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA—see Miami-Fort Lauderdale, FL CMSA**

**Fort Myers-Cape Coral, FI MSA**  
Lee County, FL

**Fort Pierce, FL MSA**  
Martin County, FL  
St. Lucie County, FL

**Fort Smith, AR-OK MSA**  
Crawford County, AR  
Sebastian County, AR  
Sequoyah County, OK

**Fort Walton Beach, FL MSA**  
Okaloosa County, FL

**Fort Wayne, IN MSA**  
Allen County, IN  
De Kalb County, IN  
Whitley County, IN

**Fort Worth-Arlington, TX PMSA—see Dallas-Fort Worth, TX CMSA**

**Fresno, CA MSA**  
Fresno County, CA

**Gadsden, AL MSA**  
Etowah County, AL

**Gainesville, FL MSA**  
Alachua County, FL  
Bradford County, FL

**Galveston-Texas City, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA**

**Gary-Hammond, IN PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA**

**Glens Falls, NY MSA**  
Warren County, NY  
Washington County, NY

**Grand Forks, ND MSA**  
Grand Forks County, ND

**Grand Rapids, MI MSA**  
Kent County, MI  
Ottawa County, MI

**Great Falls, MT MSA**  
Cascade County, MT

**Greeley, CO MSA**  
Weld County, CO

**Green Bay, WI MSA**  
Brown County, WI

**Greensboro-Winston-Salem-High Point, NC MSA**  
Davidson County, NC  
Davie County, NC  
Forsyth County, NC  
Guilford County, NC  
Randolph County, NC  
Stokes County, NC  
Yadkin County, NC

**Greenville-Spartanburg, SC MSA**  
Greenville County, SC  
Pickens County, SC  
Spartanburg County, SC

**Hagerstown, MD MSA**  
Washington County, MD

**Hamilton-Middletown, OH PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA**

**Harrisburg-Lebanon-Carlisle, PA MSA**  
Cumberland County, PA  
Dauphin County, PA  
Lebanon County, PA  
Perry County, PA

**Hartford, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA**

**Hartford-New Britain-Middletown, CT CMSA**  
Bristol, CT PMSA  
Hartford County, CT (part)  
Bristol city, CT  
Burlington town, CT  
Litchfield County, CT (part)  
Plymouth town, CT  
Hartford, CT PMSA  
Hartford County, CT (part)  
Avon town, CT  
Bloomfield town, CT  
Canton town, CT  
East Granby town, CT  
East Hartford town, CT  
East Windsor town, CT  
Enfield town, CT  
Farmington town, CT  
Glastonbury town, CT  
Granby town, CT  
Hartford city, CT  
Manchester town, CT  
Marlborough town, CT

**Hartford-New Britain-Middletown, CT CMSA—Con.**  
Hartford, CT PMSA—Con.  
Hartford County, CT (part)—Con.  
Newington town, CT  
Rocky Hill town, CT  
Simsbury town, CT  
South Windsor town, CT  
Suffield town, CT  
West Hartford town, CT  
Wethersfield town, CT  
Windsor Locks town, CT  
Windsor town, CT  
Litchfield County, CT (part)  
Barkhamsted town, CT  
New Hartford town, CT  
East Haddam town, CT  
New London County, CT (part)  
Colchester borough, CT  
Colchester town balance, CT  
Tolland County, CT (part)  
Andover town, CT  
Bolton town, CT  
Columbia town, CT  
Coventry town, CT  
Ellington town, CT  
Hebron town, CT  
Somers town, CT  
Stafford Springs borough, CT  
Stafford town balance, CT  
Tolland town, CT  
Vernon town, CT  
Willington town, CT  
Middletown, CT PMSA  
Middlesex County, CT (part)  
Cromwell town, CT  
Durham town, CT  
East Hampton town, CT  
Haddam town, CT  
Middletown town, CT  
Middletown city, CT  
Portland town, CT  
New Britain, CT PMSA  
Hartford County, CT (part)  
Berlin town, CT  
New Britain city, CT  
Plainville town, CT  
Southington town, CT

**Hickory, NC MSA**  
Alexander County, NC  
Burke County, NC  
Catawba County, NC

**Honolulu, HI MSA**  
Honolulu County, HI

**Houma-Thibodaux, LA MSA**  
Lafourche Parish, LA  
Terrebonne Parish, LA

**Houston, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA**

**Houston-Galveston-Brazoria, TX CMSA**  
Brazoria, TX PMSA  
Brazoria County, TX  
Galveston-Texas City, TX PMSA  
Galveston County, TX  
Houston, TX PMSA  
Fort Bend County, TX  
Harris County, TX  
Liberty County, TX  
Montgomery County, TX  
Waller County, TX



<b>Huntington-Ashland, WV-KY-OH MSA</b> Boyd County, KY Carter County, KY Greenup County, KY Lawrence County, OH Cabell County, WV Wayne County, WV	<b>Kenosha, WI PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA</b> <b>Killeen-Temple, TX MSA</b> Bell County, TX Coryell County, TX <b>Knoxville, TN MSA</b> Anderson County, TN Blount County, TN Grainger County, TN Jefferson County, TN Knox County, TN Sevier County, TN Union County, TN <b>Kokomo, IN MSA</b> Howard County, IN Tipton County, IN <b>La Crosse, WI MSA</b> La Crosse County, WI <b>Lafayette, LA MSA</b> Lafayette Parish, LA St. Martin Parish, LA <b>Lafayette-West Lafayette, IN MSA</b> Tippecanoe County, IN <b>Lake Charles, LA MSA</b> Calcasieu Parish, LA <b>Lake County, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA</b> <b>Lakeland-Winter Haven, FL MSA</b> Polk County, FL <b>Lancaster, PA MSA</b> Lancaster County, PA <b>Lansing-East Lansing, MI MSA</b> Clinton County, MI Eaton County, MI Ingham County, MI <b>Laredo, TX MSA</b> Webb County, TX <b>Las Cruces, NM MSA</b> Dona Ana County, NM <b>Las Vegas, NV MSA</b> Clark County, NV <b>Lawrence, KS MSA</b> Douglas County, KS <b>Lawrence-Haverhill, MA-NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA</b> <b>Lawton, OK MSA</b> Comanche County, OK <b>Lewiston-Auburn, ME MSA</b> Androscoggin County, ME (part) Auburn city, ME Greene town, ME Lewiston city, ME Lisbon town, ME Mechanic Falls town, ME Poland town, ME Sabattus town, ME <b>Lexington-Fayette, KY MSA</b> Bourbon County, KY Clark County, KY Fayette County, KY Jessamine County, KY Scott County, KY Woodford County, KY <b>Lima, OH MSA</b> Allen County, OH Auglaize County, OH <b>Lincoln, NE MSA</b> Lancaster County, NE <b>Little Rock-North Little Rock, AR MSA</b> Faulkner County, AR Lonoke County, AR Pulaski County, AR Saline County, AR	<b>Longview-Marshall, TX MSA</b> Gregg County, TX Harrison County, TX <b>Lorain-Elyria, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA</b> <b>Los Angeles-Anaheim-Riverside, CA CMSA</b> Anaheim-Santa Ana, CA PMSA Orange County, CA Los Angeles-Long Beach, CA PMSA Los Angeles County, CA Oxnard-Ventura, CA PMSA Ventura County, CA Riverside-San Bernardino, CA PMSA Riverside County, CA San Bernardino County, CA <b>Los Angeles-Long Beach, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA</b> <b>Louisville, KY-IN MSA</b> Clark County, IN Floyd County, IN Harrison County, IN Bullitt County, KY Jefferson County, KY Oldham County, KY Shelby County, KY <b>Lowell, MA-NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA</b> <b>Lubbock, TX MSA</b> Lubbock County, TX <b>Lynchburg, VA MSA</b> Amherst County, VA Campbell County, VA Lynchburg city, VA <b>Macon-Warner Robins, GA MSA</b> Bibb County, GA Houston County, GA Jones County, GA Peach County, GA <b>Madison, WI MSA</b> Dane County, WI <b>Manchester, NH MSA</b> Hillsborough County, NH (part) Bedford town, NH Goffstown town, NH Manchester city, NH Merrimack County, NH (part) Allentown town, NH Hooksett town, NH Auburn town, NH Candia town, NH <b>Mansfield, OH MSA</b> Richland County, OH <b>McAllen-Edinburg-Mission, TX MSA</b> Hidalgo County, TX <b>Medford, OR MSA</b> Jackson County, OR <b>Melbourne-Titusville-Palm Bay, FL MSA</b> Brevard County, FL <b>Memphis, TN-AR-MS MSA</b> Crittenden County, AR De Soto County, MS Shelby County, TN Tipton County, TN <b>Merced, CA MSA</b> Merced County, CA <b>Miami-Fort Lauderdale, FL CMSA</b> Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA Broward County, FL Miami-Hialeah, FL PMSA Dade County, FL
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**Miami-Hialeah, FL PMSA**—see **Miami-Fort Lauderdale, FL CMSA**

**Middlesex-Somerset-Hunterdon, NJ PMSA**  
—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

**Middletown, CT PMSA**—see **Hartford-New Britain-Middletown, CT CMSA**

**Midland, TX MSA**  
Midland County, TX

**Milwaukee, WI PMSA**—see **Milwaukee-Racine, WI CMSA**

**Milwaukee-Racine, WI CMSA**  
Milwaukee, WI PMSA  
Milwaukee County, WI  
Ozaukee County, WI  
Washington County, WI  
Waukesha County, WI  
Racine, WI PMSA  
Racine County, WI

**Minneapolis-St. Paul, MN-WI MSA**  
Anoka County, MN  
Carver County, MN  
Chisago County, MN  
Dakota County, MN  
Hennepin County, MN  
Isanti County, MN  
Ramsey County, MN  
Scott County, MN  
Washington County, MN  
Wright County, MN  
St. Croix County, WI

**Mobile, AL MSA**  
Baldwin County, AL  
Mobile County, AL

**Modesto, CA MSA**  
Stanislaus County, CA

**Monmouth-Ocean, NJ PMSA**—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

**Monroe, LA MSA**  
Ouachita Parish, LA

**Montgomery, AL MSA**  
Autauga County, AL  
Elmore County, AL  
Montgomery County, AL

**Muncie, IN MSA**  
Delaware County, IN

**Muskegon, MI MSA**  
Muskegon County, MI

**Naples, FL MSA**  
Collier County, FL

**Nashua, NH PMSA**—see **Boston-Lawrence-Salem, MA-NH CMSA**

**Nashville, TN MSA**  
Cheatham County, TN  
Davidson County, TN  
Dickson County, TN  
Robertson County, TN  
Rutherford County, TN  
Sumner County, TN  
Williamson County, TN  
Wilson County, TN

**Nassau-Suffolk, NY PMSA**—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

**New Bedford, MA MSA**  
Bristol County, MA (part)  
Acushnet town, MA  
Dartmouth town, MA  
Fairhaven town, MA  
Freetown town, MA  
New Bedford city, MA

**New Bedford, MA MSA**—Con.  
Plymouth County, MA (part)  
Marion town, MA  
Mattapoisett town, MA  
Rochester town, MA

**New Britain, CT PMSA**—see **Hartford-New Britain-Middletown, CT CMSA**

**New Haven-Meriden, CT MSA**  
Middlesex County, CT (part)  
Clinton town, CT  
Killingworth town, CT  
New Haven County, CT (part)  
Bethany town, CT  
Branford town, CT  
Cheshire town, CT  
East Haven town, CT  
Guilford town, CT  
Hamden town, CT  
Madison town, CT  
Meriden city, CT  
New Haven city, CT  
North Branford town, CT  
North Haven town, CT  
Orange town, CT  
Wallingford town, CT  
West Haven city, CT  
Woodbridge town, CT

**New London-Norwich, CT-RI MSA**  
New London County, CT (part)  
Bozrah town, CT  
East Lyme town, CT  
Franklin town, CT  
Griswold town balance, CT  
Groton city, CT  
Groton town balance, CT  
Jewett City borough, CT  
Ledyard town, CT  
Lisbon town, CT  
Montville town, CT  
New London city, CT  
North Stonington town, CT  
Norwich city, CT  
Old Lyme town, CT  
Preston town, CT  
Salem town, CT  
Sprague town, CT  
Stonington town, CT  
Waterford town, CT  
Windham County, CT (part)  
Canterbury town, CT  
Washington County, RI (part)  
Hopkinton town, RI  
Westerly town, RI

**New Orleans, LA MSA**  
Jefferson Parish, LA  
Orleans Parish, LA  
St. Bernard Parish, LA  
St. Charles Parish, LA  
St. John the Baptist Parish, LA  
St. Tammany Parish, LA

**New York, NY PMSA**—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

**New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**  
Bergen-Passaic, NJ PMSA  
Bergen County, NJ  
Passaic County, NJ  
Bridgeport-Milford, CT PMSA  
Fairfield County, CT (part)  
Bridgeport city, CT  
Easton town, CT  
Fairfield town, CT  
Monroe town, CT

**New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**—Con.  
Bridgeport-Milford, CT PMSA—Con.  
Fairfield County, CT (part)—Con.  
Shelton city, CT  
Stratford town, CT  
Trumbull town, CT  
New Haven County, CT (part)  
Ansonia city, CT  
Beacon Falls town, CT  
Derby city, CT  
Milford city, CT  
Milford town balance, CT  
Oxford town, CT  
Seymour town, CT  
Woodmont borough, CT  
Danbury, CT PMSA  
Fairfield County, CT (part)  
Bethel town, CT  
Brookfield town, CT  
Danbury city, CT  
New Fairfield town, CT  
Newtown town, CT  
Redding town, CT  
Ridgefield town, CT  
Sherman town, CT  
Litchfield County, CT (part)  
Bridgewater town, CT  
New Milford town, CT  
Jersey City, NJ PMSA  
Hudson County, NJ  
Middlesex-Somerset-Hunterdon, NJ PMSA  
Hunterdon County, NJ  
Middlesex County, NJ  
Somerset County, NJ  
Monmouth-Ocean, NJ PMSA  
Monmouth County, NJ  
Ocean County, NJ  
Nassau-Suffolk, NY PMSA  
Nassau County, NY  
Suffolk County, NY  
New York, NY PMSA  
Bronx County, NY  
Kings County, NY  
New York County, NY  
Putnam County, NY  
Queens County, NY  
Richmond County, NY  
Rockland County, NY  
Westchester County, NY  
Newark, NJ PMSA  
Essex County, NJ  
Morris County, NJ  
Sussex County, NJ  
Union County, NJ  
Norwalk, CT PMSA  
Fairfield County, CT (part)  
Norwalk city, CT  
Weston town, CT  
Westport town, CT  
Wilton town, CT  
Orange County, NY PMSA  
Orange County, NY  
Stamford, CT PMSA  
Fairfield County, CT (part)  
Darien town, CT  
Greenwich town, CT  
New Canaan town, CT  
Stamford city, CT



**Newark, NJ PMSA—see New York-Northern  
New Jersey-Long Island, NY-NJ-CT CMSA**  
**Niagara Falls, NY PMSA—see Buffalo-Niagara  
Falls, NY CMSA**  
**Norfolk-Virginia Beach-Newport News, VA  
MSA**

Gloucester County, VA  
James City County, VA  
York County, VA  
Chesapeake city, VA  
Hampton city, VA  
Newport News city, VA  
Norfolk city, VA  
Poquoson city, VA  
Portsmouth city, VA  
Suffolk city, VA  
Virginia Beach city, VA  
Williamsburg city, VA

**Norwalk, CT PMSA—see New York-Northern  
New Jersey-Long Island, NY-NJ-CT CMSA**  
**Oakland, CA PMSA—see San Francisco-  
Oakland-San Jose, CA CMSA**

**Ocala, FL MSA**

Marion County, FL

**Odessa, TX MSA**

Ector County, TX

**Oklahoma City, OK MSA**

Canadian County, OK  
Cleveland County, OK  
Logan County, OK  
McClain County, OK  
Oklahoma County, OK  
Pottawatomie County, OK

**Olympia, WA MSA**

Thurston County, WA

**Omaha, NE-IA MSA**

Pottawattamie County, IA  
Douglas County, NE  
Sarpy County, NE  
Washington County, NE

**Orange County, NY PMSA—see New York-Northern  
New Jersey-Long Island, NY-NJ-CT CMSA**

**Orlando, FL MSA**

Orange County, FL  
Osceola County, FL  
Seminole County, FL

**Owensboro, KY MSA**

Daviess County, KY

**Oxnard-Ventura, CA PMSA—see Los Angeles-  
Anaheim-Riverside, CA CMSA**

**Panama City, FL MSA**

Bay County, FL

**Parkersburg-Marletta, WV-OH MSA**

Washington County, OH  
Wood County, WV

**Pascagoula, MS MSA**

Jackson County, MS

**Pawtucket-Woonsocket-Attleboro, RI-MA  
PMSA—see Providence-Pawtucket-Fall  
River, RI-MA CMSA**

**Pensacola, FL MSA**

Escambia County, FL  
Santa Rosa County, FL

**Peoria, IL MSA**

Peoria County, IL  
Tazewell County, IL  
Woodford County, IL

**Philadelphia, PA-NJ PMSA—see Philadelphia-  
Wilmington-Trenton, PA-NJ-DE-MD CMSA**

**Philadelphia-Wilmington-Trenton, PA-NJ-DE-  
MD CMSA**

Philadelphia, PA-NJ PMSA

Burlington County, NJ

Camden County, NJ

Gloucester County, NJ

Bucks County, PA

Chester County, PA

Delaware County, PA

Montgomery County, PA

Philadelphia County, PA

Trenton, NJ PMSA

Mercer County, NJ

Vineland-Millville-Bridgeton, NJ PMSA

Cumberland County, NJ

Wilmington, DE-NJ-MD PMSA

New Castle County, DE

Cecil County, MD

Salem County, NJ

**Phoenix, AZ MSA**

Maricopa County, AZ

**Pine Bluff, AR MSA**

Jefferson County, AR

**Pittsburgh, PA PMSA—see Pittsburgh-Beaver  
Valley, PA CMSA**

**Pittsburgh-Beaver Valley, PA CMSA**

Beaver County, PA PMSA

Beaver County, PA

Pittsburgh, PA PMSA

Allegheny County, PA

Fayette County, PA

Washington County, PA

Westmoreland County, PA

**Pittsfield, MA MSA**

Berkshire County, MA (part)

Cheshire town, MA

Dalton town, MA

Hinsdale town, MA

Lanesborough town, MA

Lee town, MA

Lenox town, MA

Pittsfield city, MA

Richmond town, MA

Stockbridge town, MA

**Portland, ME MSA**

Cumberland County, ME (part)

Cape Elizabeth town, ME

Cumberland town, ME

Falmouth town, ME

Freeport town, ME

Gorham town, ME

Gray town, ME

North Yarmouth town, ME

Portland city, ME

Raymond town, ME

Scarborough town, ME

South Portland city, ME

Standish town, ME

Westbrook city, ME

Windham town, ME

Yarmouth town, ME

York County, ME (part)

Buxton town, ME

Hollis town, ME

Old Orchard Beach town, ME

**Portland, OR PMSA—see Portland-Vancouver,  
OR-WA CMSA**

**Portland-Vancouver, OR-WA CMSA**

Portland, OR PMSA

Clackamas County, OR

Multnomah County, OR

Washington County, OR

Yamhill County, OR

Vancouver, WA PMSA

Clark County, WA

**Portsmouth-Dover-Rochester, NH-ME MSA**

York County, ME (part)

Berwick town, ME

Eliot town, ME

Kittery town, ME

North Berwick town, ME

Ogunquit town, ME

South Berwick town, ME

Wells town, ME

York town, ME

Rockingham County, NH (part)

Exeter town, NH

Greenland town, NH

Hampton town, NH

New Castle town, NH

Newfields town, NH

Newington town, NH

Newmarket town, NH

North Hampton town, NH

Portsmouth city, NH

Rye town, NH

Stratham town, NH

Strafford County, NH (part)

Barrington town, NH

Dover city, NH

Durham town, NH

Farmington town, NH

Lee town, NH

Madbury town, NH

Milton town, NH

Rochester city, NH

Rollinsford town, NH

Somersworth city, NH

**Poughkeepsie, NY MSA**

Dutchess County, NY

**Providence, RI PMSA—see Providence-  
Pawtucket-Fall River, RI-MA CMSA**

**Providence-Pawtucket-Fall River, RI-MA CMSA**

Fall River, MA-RI PMSA

Bristol County, MA (part)

Fall River city, MA

Somerset town, MA

Swansea town, MA

Westport town, MA

Newport County, RI (part)

Little Compton town, RI

Tiverton town, RI

**Pawtucket-Woonsocket-Attleboro, RI-MA PMSA**

Bristol County, MA (part)

Attleboro city, MA

North Attleborough town, MA

Rehoboth town, MA

Seekonk town, MA

Norfolk County, MA (part)

Plainville town, MA

Worcester County, MA (part)

Blackstone town, MA

Millville town, MA

Providence County, RI (part)

Burrillville town, RI

Central Falls city, RI

Cumberland town, RI

Lincoln town, RI



**Providence-Pawtucket-Fall River, RI-MA CMSA—Con.**

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—Con.

Providence County, RI (part)—Con.

North Smithfield town, RI

Pawtucket city, RI

Smithfield town, RI

Woonsocket city, RI

Providence, RI PMSA

Bristol County, RI (part)

Barrington town, RI

Bristol town, RI

Warren town, RI

Kent County, RI (part)

Coventry town, RI

East Greenwich town, RI

Warwick city, RI

West Warwick town, RI

Newport County, RI (part)

Jamestown town, RI

Providence County, RI (part)

Cranston city, RI

East Providence city, RI

Foster town, RI

Glocester town, RI

Johnston town, RI

North Providence town, RI

Providence city, RI

Scituate town, RI

Washington County, RI (part)

Exeter town, RI

Narragansett town, RI

North Kingstown town, RI

Richmond town, RI

South Kingstown town, RI

**Provo-Orem, UT MSA**

Utah County, UT

**Pueblo, CO MSA**

Pueblo County, CO

**Racine, WI PMSA—see Milwaukee-Racine, WI CMSA**

**Raleigh-Durham, NC MSA**

Durham County, NC

Franklin County, NC

Orange County, NC

Wake County, NC

**Rapid City, SD MSA**

Pennington County, SD

**Reading, PA MSA**

Berks County, PA

**Redding, CA MSA**

Shasta County, CA

**Reno, NV MSA**

Washoe County, NV

**Richland-Kennewick-Pasco, WA MSA**

Benton County, WA

Franklin County, WA

**Richmond-Petersburg, VA MSA**

Charles City County, VA

Chesterfield County, VA

Dinwiddie County, VA

Goochland County, VA

Hanover County, VA

Henrico County, VA

New Kent County, VA

Powhatan County, VA

Prince George County, VA

Colonial Heights city, VA

Hopewell city, VA

Petersburg city, VA

Richmond city, VA

**Riverside-San Bernardino, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA**

**Roanoke, VA MSA**

Botetourt County, VA

Roanoke County, VA

Roanoke city, VA

Salem city, VA

**Rochester, MN MSA**

Olmsted County, MN

**Rochester, NY MSA**

Livingston County, NY

Monroe County, NY

Ontario County, NY

Orleans County, NY

Wayne County, NY

**Rockford, IL MSA**

Boone County, IL

Winnebago County, IL

**Sacramento, CA MSA**

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo County, CA

**Saginaw-Bay City-Midland, MI MSA**

Bay County, MI

Midland County, MI

Saginaw County, MI

**St. Cloud, MN MSA**

Benton County, MN

Sherburne County, MN

Stearns County, MN

**St. Joseph, MO MSA**

Buchanan County, MO

**St. Louis, MO-IL MSA**

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

St. Charles County, MO

St. Louis County, MO

St. Louis city, MO

**Salem, OR MSA**

Marion County, OR

Polk County, OR

**Salem-Gloucester, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA**

**Salinas-Seaside-Monterey, CA MSA**

Monterey County, CA

**Salt Lake City-Ogden, UT MSA**

Davis County, UT

Salt Lake County, UT

Weber County, UT

**San Angelo, TX MSA**

Tom Green County, TX

**San Antonio, TX MSA**

Bexar County, TX

Comal County, TX

Guadalupe County, TX

**San Diego, CA MSA**

San Diego County, CA

**San Francisco, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**

**San Francisco-Oakland-San Jose, CA CMSA**

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

**San Francisco-Oakland-San Jose, CA CMSA—Con.**

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

Santa Cruz, CA PMSA

Santa Cruz County, CA

Santa Rosa-Petaluma, CA PMSA

Sonoma County, CA

Vallejo-Fairfield-Napa, CA PMSA

Napa County, CA

Solano County, CA

**San Jose, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**

**Santa Barbara-Santa Maria-Lompoc, CA MSA**

Santa Barbara County, CA

**Santa Cruz, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**

**Santa Fe, NM MSA**

Los Alamos County, NM

Santa Fe County, NM

**Santa Rosa-Petaluma, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**

**Sarasota, FL MSA**

Sarasota County, FL

**Savannah, GA MSA**

Chatham County, GA

Effingham County, GA

**Scranton-Wilkes-Barre, PA MSA**

Columbia County, PA

Lackawanna County, PA

Luzerne County, PA

Monroe County, PA

Wyoming County, PA

**Seattle, WA PMSA—see Seattle-Tacoma, WA CMSA**

**Seattle-Tacoma, WA CMSA**

Seattle, WA PMSA

King County, WA

Snohomish County, WA

Tacoma, WA PMSA

Pierce County, WA

**Sharon, PA MSA**

Mercer County, PA

**Sheboygan, WI MSA**

Sheboygan County, WI

**Sherman-Denison, TX MSA**

Grayson County, TX

**Shreveport, LA MSA**

Bossier Parish, LA

Caddo Parish, LA

**Sioux City, IA-NE MSA**

Woodbury County, IA

Dakota County, NE

**Sioux Falls, SD MSA**

Minnehaha County, SD

**South Bend-Mishawaka, IN MSA**

St. Joseph County, IN

**Spokane, WA MSA**

Spokane County, WA

**Springfield, IL MSA**

Menard County, IL

Sangamon County, IL

**Springfield, MO MSA**

Christian County, MO

Greene County, MO



<b>Springfield, MA MSA</b> Hampden County, MA (part) Agawam town, MA Chicopee city, MA East Longmeadow town, MA Hampden town, MA Holyoke city, MA Longmeadow town, MA Ludlow town, MA Monson town, MA Montgomery town, MA Palmer town, MA Russell town, MA Southwick town, MA Springfield city, MA Westfield city, MA West Springfield town, MA Wilbraham town, MA Hampshire County, MA (part) Belchertown town, MA Easthampton town, MA Granby town, MA Huntington town, MA Northampton city, MA Southampton town, MA South Hadley town, MA	<b>Tucson, AZ MSA</b> Pima County, AZ <b>Tulsa, OK MSA</b> Creek County, OK Osage County, OK Rogers County, OK Tulsa County, OK Wagoner County, OK <b>Tuscaloosa, AL MSA</b> Tuscaloosa County, AL <b>Tyler, TX MSA</b> Smith County, TX <b>Utica-Rome, NY MSA</b> Herkimer County, NY Oneida County, NY <b>Vallejo-Fairfield-Napa, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA</b> <b>Vancouver, WA PMSA—see Portland-Vancouver, OR-WA CMSA</b> <b>Victoria, TX MSA</b> Victoria County, TX <b>Vineland-Millville-Bridgeton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA</b> <b>Visalia-Tulare-Porterville, CA MSA</b> Tulare County, CA <b>Waco, TX MSA</b> McLennan County, TX <b>Washington, DC-MD-VA MSA</b> District of Columbia, DC Calvert County, MD Charles County, MD Frederick County, MD Montgomery County, MD Prince George's County, MD Arlington County, VA Fairfax County, VA Loudoun County, VA Prince William County, VA Stafford County, VA Alexandria city, VA Fairfax city, VA Falls Church city, VA Manassas city, VA Manassas Park city, VA	<b>West Palm Beach-Boca Raton-DeLray Beach, FL MSA</b> Palm Beach County, FL <b>Wheeling, WV-OH MSA</b> Belmont County, OH Marshall County, WV Ohio County, WV <b>Wichita, KS MSA</b> Butler County, KS Harvey County, KS Sedgwick County, KS <b>Wichita Falls, TX MSA</b> Wichita County, TX <b>Williamsport, PA MSA</b> Lycoming County, PA <b>Wilmington, DE-NJ-MD PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA</b> <b>Wilmington, NC MSA</b> New Hanover County, NC <b>Worcester, MA MSA</b> Worcester County, MA (part) Auburn town, MA Barre town, MA Boylston town, MA Brookfield town, MA Charlton town, MA Clinton town, MA Douglas town, MA Dudley town, MA East Brookfield town, MA Grafton town, MA Holden town, MA Leicester town, MA Millbury town, MA Northborough town, MA Northbridge town, MA North Brookfield town, MA Oxford town, MA Paxton town, MA Princeton town, MA Rutland town, MA Shrewsbury town, MA Spencer town, MA Sterling town, MA Sutton town, MA Uxbridge town, MA Webster town, MA Westborough town, MA West Boylston town, MA Worcester city, MA
<b>Stamford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA</b> <b>State College, PA MSA</b> Centre County, PA <b>Steubenville-Weirton, OH-WV MSA</b> Jefferson County, OH Brooke County, WV Hancock County, WV <b>Stockton, CA MSA</b> San Joaquin County, CA <b>Syracuse, NY MSA</b> Madison County, NY Onondaga County, NY Oswego County, NY <b>Tacoma, WA PMSA—see Seattle-Tacoma, WA CMSA</b> <b>Tallahassee, FL MSA</b> Gadsden County, FL Leon County, FL <b>Tampa-St. Petersburg-Clearwater, FL MSA</b> Hernando County, FL Hillsborough County, FL Pasco County, FL Pinellas County, FL <b>Terre Haute, IN MSA</b> Clay County, IN Vigo County, IN <b>Texarkana, TX-Texarkana, AR MSA</b> Miller County, AR Bowie County, TX <b>Toledo, OH MSA</b> Fulton County, OH Lucas County, OH Wood County, OH <b>Topeka, KS MSA</b> Shawnee County, KS <b>Trenton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA</b>	<b>Waterbury, CT MSA</b> Litchfield County, CT (part) Bethlehem town, CT Thomaston town, CT Watertown town, CT Woodbury town, CT New Haven County, CT (part) Middlebury town, CT Naugatuck borough, CT Prospect town, CT Southbury town, CT Waterbury city, CT Wolcott town, CT <b>Waterloo-Cedar Falls, IA MSA</b> Black Hawk County, IA Bremer County, IA <b>Wausau, WI MSA</b> Marathon County, WI	<b>Yakima, WA MSA</b> Yakima County, WA <b>York, PA MSA</b> Adams County, PA York County, PA <b>Youngstown-Warren, OH MSA</b> Mahoning County, OH Trumbull County, OH <b>Yuba City, CA MSA</b> Sutter County, CA Yuba County, CA





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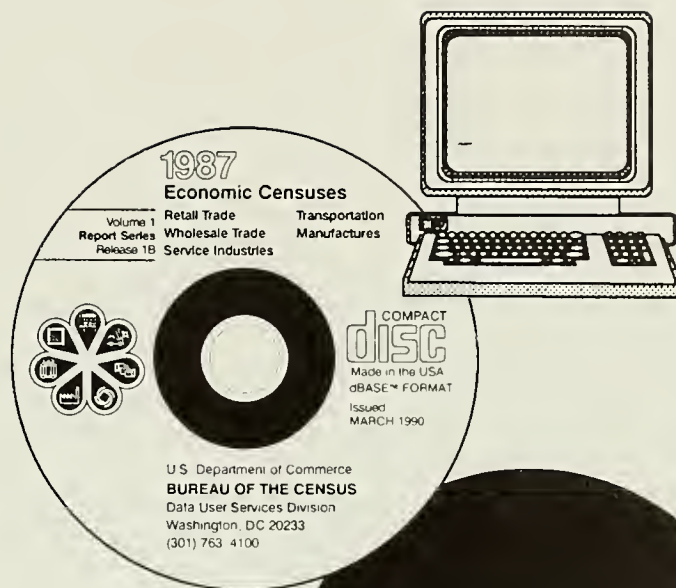
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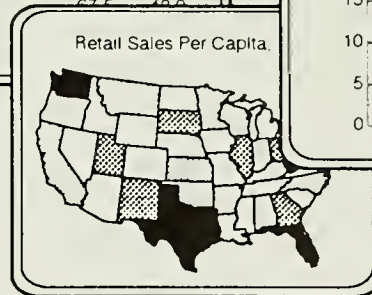
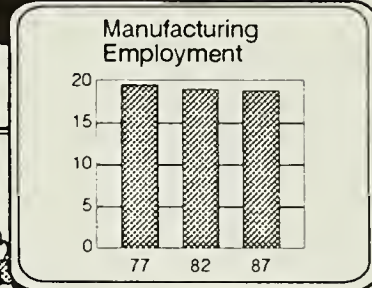
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**Service Industry Growth, 1982–1987: United States (Percent)**

	Receipts	Employment
Total	76.2	41.3
Hotels, etc.	56.1	28.0
Personal services	52.9	24.6
Business services	102.9	66.6
Auto repair	67.5	10.0
Misc. repair		
Amusements		



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# PUBLICATION PROGRAM

## 1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

- Printed reports [P]
- CD-ROM [C]
- Computer tape [T]
- Highlights online [+]

### Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
- Number of employees
- Payroll
- Hours worked
- Value of construction work done, by type of structure
- Selected operating costs

### Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

## Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

## Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

## OTHER ECONOMIC CENSUSES REPORTS

The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

## HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.

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CC87-A-10

United States Summary

1987 Census of Construc  
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